APPENDIX N.1 APP CLOSURE AND POST-CLOSURE COSTS (From Wood, 2022k)

STANDARDIZED RECLAMATION COST ESTIMATOR RESULTS

Enter Data Below in Green and Blue Spaces

STANDARDIZED RECLAMATION COST ESTIMATOR

Version 1.4.1 Build 017b (Revised 16 May 2019)

Approved for use in Nevada, August 1, 2012

COST DATA FILE INFORMATION	ON CONTRACTOR OF THE PROPERTY
File Name:	Copy of ROSEMONT Copper World SRCE_APP_Revised July 28 2022.xlsm
Cost Data File:	SRCE_Cost_data-USR_1_12.xlsm
Cost Data Date:	April 15, 2022
Cost Data Basis:	User Data Cost Units: Imperial
Author/Source:	CDM Smith
PROJECT INFORMATION	
Property/Mine Name:	Rosemont Copper World Project Property Code:
Project Name:	Rosemont Copper World Conceptual Closure Plan
Date of Submittal:	July 20, 2022 Average Altitude: 4300 ft.
Select One:	○ Notice or Sm Exploration Plan □ Lg Exploration Plan □ Mine Operation
Select One:	© Private Land
Cost Estimate Type:	Surety
Cost Basis Category:	Southern Nevada - Adjusted for Arizona
Cost Basis Description:	Clark, Esmeralda, Lincoln and Nye Counties - Adjusted for Pima County, AZ

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Closure Cost Estimate Cost Summary

Project Name: Rosemont Copper World Conceptual Closure Plan Project Date: July 20, 2022

Model Version: Version 1.4.1

File Name: Copy of ROSEMONT Copper World SRCE_APP_Revised July 28 2022.xlsm
Data Cost File: SRCE_Cost_data-USR_1_12.xlsm

Cost Basis: Southern Nevada - Adjusted for Arizona

A. Earthwork/Recontouring	Labor (1)	Equipment (2)	Materials	Total
Exploration	\$0	\$0	\$0	\$0
Exploration Roads & Drill Pads	\$0	\$0	\$0	\$0
Roads Well Abandonment	\$0	\$0	\$0 \$0	\$0 \$0
Pits	\$0 \$0	\$0 \$0	N/A	\$0 \$0
Quarries & Borrow Areas	\$0	\$0 \$0	\$0	\$0
Underground Openings	\$0	\$0	\$0	\$0
Process Ponds	\$84,590	\$195,578	\$0	\$280,168
Heaps	\$549,724	\$1,364,406	\$5,850	\$1,919,980
Waste Rock Dumps	\$0	\$0	\$0	\$0
Landfills	\$0	\$0	\$0	\$0
Tailings	\$3,448,938	\$9,278,150	\$0	\$12,727,088
Foundation & Buildings Areas	\$0	\$0	\$0	\$0
Yards, Etc.	\$0	\$0	\$0	\$0
Drainage & Sediment Control	\$1,234,744	\$279,749	\$623,303	\$2,137,796
Generic Material Hauling Other User Costs (from Other User sheet)	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Other oser costs (from other oser sneet) Other**	\$0	φυ	\$0	\$0 \$0
Subtotal	\$5,317,996	\$11,117,883	\$629,153	\$17,065,032
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<i>ϕ.</i> ,, ,		VIII, CC, CC
Mob/Demob if included in Other User sheet	\$0	\$0	\$0	\$0
Mob/Demob Rosemont RP21_APP_mob_demob_072022	\$201,254			\$201,254
Subtotal "A"	\$5,519,250	\$11,117,883	\$629,153	\$17,266,286
B. Revegetation/Stabilization	Labor (1)	Equipment (2)	Materials	Total
Exploration	\$0	\$0	\$0	\$0
Exploration Roads & Drill Pads	\$0	\$0	\$0	\$0
Roads	\$0	\$0	\$0	\$0
Well Abandonment				N/A
Pits	\$0	\$0	\$0	\$0
Quarries & Borrow Areas	\$0	\$0	\$0	\$0
Underground Openings				N/A
Process Ponds	\$0	\$0	\$0	\$0
Heaps	\$0	\$0	\$0	\$0
Waste Rock Dumps	\$0	\$0	\$0	\$0
Landfills	\$0	\$0	\$0	\$0
Tailings Foundation & Buildings Areas	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Yards, Etc.	\$0	\$0	\$0 \$0	\$0
Drainage & Sediment Control	\$0	\$0	\$0	\$0
Generic Material Hauling	\$0	\$0	\$0	\$0
Other User Costs (from Other User sheet)	\$0	\$0	\$0	\$0
Other**				\$0
Subtotal "B"	\$0	\$0	\$0	\$0
				·
C. Detoxification/Water Treatment/Disposal of Wastes**	Labor ⁽¹⁾	Equipment (2)	Materials	Total
Process Ponds/Sludge				\$0
Heaps				\$0
Dumps (Waste & Landfill)				\$0
Tailings				\$0
Surplus Water Disposal				\$0
Monitoring Miscellaneous				\$0 \$0
	00	\$0	N/A	\$0 \$0
JOHO WASIE - UR SITE			IN/A	\$50,235
Solid Waste - On Site	\$0	ΨΟ		
Solid Waste - Off Site	\$0	\$0		
Solid Waste - Off Site Hazardous Materials			\$0	\$0
Solid Waste - Off Site	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0	
Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils	\$0	\$0		\$0 \$0
Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet)	\$0 \$0	\$0 \$0	\$0	\$0 \$0 \$0
Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other* Process Fluid Management Subtotal "C"	\$0 \$0 \$28,199,233 \$28,199,233	\$0 \$0 \$16,880,189 \$16,880,189	\$0 \$4,257,125 \$4,257,125	\$0 \$0 \$0 \$49,336,547 \$49,386,782
Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Process Fluid Management Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc.	\$0 \$0 \$28,199,233 \$28,199,233	\$0 \$0 \$16,880,189 \$16,880,189 Equipment (2)	\$0 \$4,257,125 \$4,257,125 Materials	\$0 \$0 \$0 \$49,336,547 \$49,386,782
Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Process Fluid Management Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas	\$0 \$28,199,233 \$28,199,233 Labor (1)	\$0 \$16,880,189 \$16,880,189 \$16,880,189 Equipment (2) \$0	\$0 \$4,257,125 \$4,257,125 Materials \$0	\$0 \$0 \$0 \$49,336,547 \$49,386,782 Total
Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Process Fluid Management Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition	\$0 \$0 \$28,199,233 \$28,199,233 Labor (1) \$0 \$0	\$0 \$16,880,189 \$16,880,189 Equipment (2) \$0 \$0	\$4,257,125 \$4,257,125 Materials \$0 \$0	\$0 \$0 \$49,336,547 \$49,386,782 Total \$0 \$0
Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Process Fluid Management Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal	\$0 \$0 \$28,199,233 \$28,199,233 \$28,199,233 Labor (1) \$0 \$0	\$0 \$0 \$16,880,189 \$16,880,189 Equipment (2) \$0 \$0	\$0 \$4,257,125 \$4,257,125 Materials \$0	\$0 \$0 \$3 \$49,336,547 \$49,386,782 Total \$0 \$0
Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Process Fluid Management Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition	\$0 \$0 \$28,199,233 \$28,199,233 Labor (1) \$0 \$0 \$0	\$0 \$16,880,189 \$16,880,189 Equipment (2) \$0 \$0	\$4,257,125 \$4,257,125 Materials \$0 \$0	\$0 \$0 \$49,336,547 \$49,386,782 Total \$0 \$0 \$0
Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Process Fluid Management Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal	\$0 \$0 \$28,199,233 \$28,199,233 \$28,199,233 Labor (1) \$0 \$0	\$0 \$16,880,189 \$16,880,189 Equipment (2) \$0 \$0 \$0	\$0 \$4,257,125 \$4,257,125 Materials \$0 \$0	\$0 \$0 \$49,336,547 \$49,386,782 Total \$0 \$0

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Page 1 of 2 Cost Summary

Closure Cost Estimate

Cost Summary

Project Name: Rosemont Copper World Conceptual Closure Plan

Project Date: July 20, 2022 Model Version: Version 1.4.1

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File Name: Copy of ROSEMONT C	• • • • • • • • • • • • • • • • • • • •	I _INEVISED JULY Z	U ZUZZ.XISIII	\$0
Transformer Removal	\$0 \$0			\$C
	\$0	\$0	\$0	\$C
Rip-rap, rock lining, gabions Other Misc. Costs	**	\$0 \$0	\$0 \$0	\$0 \$0
	\$0 \$0	\$0 \$0		
Other User Costs (from Other User sheet) Other**	\$0	\$0	\$0	\$0 \$0
Subtotal "D"	\$0	\$0	\$0	\$∪ \$0
Subtotal D	\$0	Ψυ	ֆՍ	ΨU
E. Monitoring	Labor ⁽¹⁾	Equipment (2)	Materials	Total
Reclamation Monitoring and Maintenance	\$493,551	\$1,049,058	\$70,113	\$1,612,722
Ground and Surface Water Monitoring	\$854,825	\$112,476	\$97,697	\$1,064,998
Other User Costs (from Other User sheet)	\$0	\$0	\$0	\$0
Subtotal "E"	\$1,348,376	\$1,161,534	\$167,810	\$2,677,720
F. Construction Management & Support	Labor	Equipment (2)	Materials	Total
Construction Management	\$572,506	\$111,832	N/A	\$684,338
Construction Support	\$0	\$47,791	\$0	\$47,791
Road Maintenance	\$309,982	\$665,614	\$19,879	\$995,475
Other User Costs (from Other User sheet)	\$0	\$0	\$0	\$0
Other**				\$0
Subtotal "F"	\$882,488	\$825,237	\$19,879	\$1,727,604
Subtotal Operational & Maintenance Costs	Labor ⁽¹⁾	Equipment (2)	Materials (3)	Total

^{**} Other Operator supplied costs - additional documentation required.

Indirect Costs				Include?	Total
1. Engineering, Design and Construction (ED&C) Plan (7)					\$2,842,336
2. Contingency (8)					\$2,842,336
3. Insurance (9)		\$539,240			\$539,240
4. Performance Bond (10)					\$2,131,752
5. Contractor Profit (11)					\$7,105,839
6. Contract Administration (12)					\$4,263,504
7. Government Indirect Cost (13)					\$895,336
Subtotal Add-On Costs					\$20,620,343
Total Indirect Costs as % of Direct Cost					29%
ORAND TOTAL					\$91,678,735
Administrative Cost Rates (%)					ψ91,070,733
Administrative Cost Rates (%)		Cost Ranges	for Indirect Cost	t Percentage:	
	<=	Cost Ranges	for Indirect Cost	t Percentage:	
	<= \$1,000,000	<=			
Administrative Cost Rates (%)		<=		>	S
Administrative Cost Rates (%) 1. Engineering, Design and Construction (ED&C) Plan (7)	\$1,000,000	<= \$25,000,000		> \$25,000,000	S Small Plan
Administrative Cost Rates (%) 1. Engineering, Design and Construction (ED&C) Plan (7)	\$1,000,000 8%	\$25,000,000 6% <=	<=	> \$25,000,000 4%	S Small Plan
Administrative Cost Rates (%) 1. Engineering, Design and Construction (ED&C) Plan (7) Variable Rate	\$1,000,000 8%	\$25,000,000 6% <=	<= <=	\$25,000,000 4% >	S Small Plan
1. Engineering, Design and Construction (ED&C) Plan (7) Variable Rate 2. Contingency (8)	\$1,000,000 8% <= \$500,000 10%	<= \$25,000,000 6% <= \$5,000,000	<= <= \$50,000,000	\$25,000,000 4% > \$50,000,000	S Small Plan 0%
Administrative Cost Rates (%) 1. Engineering, Design and Construction (ED&C) Plan (7) Variable Rate 2. Contingency (8) Variable Rate	\$1,000,000 8% <= \$500,000 10% 1.5%	<= \$25,000,000 6% <= \$5,000,000 8%	<= <= \$50,000,000 6%	\$25,000,000 4% > \$50,000,000	Small Plan 0% Small Plan
Administrative Cost Rates (%) 1. Engineering, Design and Construction (ED&C) Plan (7) Variable Rate 2. Contingency (8) Variable Rate 3. Insurance (9)	\$1,000,000 8% <= \$500,000 10% 1.5% 3.0%	<= \$25,000,000 6% <= \$5,000,000 8% of labor costs	<= <= \$50,000,000 6%	\$25,000,000 4% > \$50,000,000	S Small Plan 0%
Administrative Cost Rates (%) 1. Engineering, Design and Construction (ED&C) Plan (7) Variable Rate 2. Contingency (8) Variable Rate 3. Insurance (9) 4. Bond (10)	\$1,000,000 8% <= \$500,000 10% 1.5% 3.0%	<= \$25,000,000 6% <= \$5,000,000 8% of labor costs of the O&M costs if O&M	<= <= \$50,000,000 6%	\$25,000,000 4% > \$50,000,000	Small Plan 0% Small Plan
Administrative Cost Rates (%) 1. Engineering, Design and Construction (ED&C) Plan (7) Variable Rate 2. Contingency (8) Variable Rate 3. Insurance (9) 4. Bond (10)	\$1,000,000 8% <= \$500,000 10% 3.0% 100	<= \$25,000,000 6% <= \$5,000,000 8% of labor costs of the O&M costs if O&M of the O&M costs	<= \$50,000,000 6% M costs are >\$100,000	> \$25,000,000 4% > \$50,000,000 4%	S Small Plan 0%
Administrative Cost Rates (%) 1. Engineering, Design and Construction (ED&C) Plan (7) Variable Rate 2. Contingency (8) Variable Rate 3. Insurance (9) 4. Bond (10) 5. Contractor Profit (11)	\$1,000,000 8% <= \$500,000 10% 3.0% 10%	<= \$25,000,000 6% <= \$5,000,000 8% of labor costs of the O&M costs if O&M of the O&M costs	<= \$50,000,000 6% M costs are >\$100,000	> \$25,000,000 4% > \$50,000,000 4% > \$	S Small Plan 0%

RECLAMATION COST ESTIMATION SUMMARY SHEET FOOTNOTES

- 1. Federal construction contracts require Davis-Bacon wage rates for contracts over \$2,000. Wage rate estimates may include base pay, payroll loading,
- The reclamation cost estimate must include the estimated plugging cost of at least one drill hole for each active drill rig in the project area. Where the
- Miscellaneous items should be itemized on accompanying worksheets.
- Fluid management should be calculated only when mineral processing activities are involved. Fluid management represents the costs of maintaining proper
- 5. Handling of hazardous materials includes the cost of decontaminating, neutralizing, disposing, treating and/or isolating all hazardous materials used, 6. Any mitigation measures required in the Plan of Operations must be included in the reclamation cost estimate. Mitigation may include measures to avoid,
- 7. Engineering, design and construction (ED&C) plans are often necessary to provide details on the reclamation needed to contract for the required work. To 8. A contingency cost is included in the reclamation cost estimation to cover unforeseen cost elements. Calculate the contingency cost as a percentage of the
- 9. Insurance premiums are calculated at 1.5% of the total labor costs. Enter the premium amount if liability insurance is not included in the itemized unit costs.

 10. Federal construction contracts exceeding \$100,000 require both a performance and a payment bond (Miller Act, 40 USC 270et seq.). Each bond premium is
- 11. For Federal construction contracts, use 10% of estimated O&M cost for the contractor's profit.
- 12. To estimate the contract administration cost, use 6 to 10% of the operational and maintenance (O&M) cost. Calculate the contract administration cost as a

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Closure Cost Estimate Heap Leach

Project Name: Rosemont Copper World Conceptual Closure Plan - Reclamation Plan Date of Submittal: July 20, 2022 File Name: Copy of ROSEMONT Copper World SRCE_APP_Revised July 28 2022.xism

Model Version: Version 1.4.1 Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

	Labor	Equipment	Materials	Totals
Drain Installation	\$1,155	\$810	\$5,850	\$7,815
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$548,569	\$1,363,596	N/A	\$1,912,165
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$549,724	\$1,364,406	\$5,850	\$1,919,980
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$549,724	\$1,364,406	\$5.850	\$1,919,980

Color Code Key										
User Input - Direct Input	Direct Input									
User Input - Pull Down List	Pull Down Selection									
Program Constant (can override)	Alternate Input									
Program Calculated Value	Locked Cell - Formula or Reference									

He	leap Leach Pads - User Input You must fill in ALL green cells and relevant blue cells in this section for each heap, lift or heap category																		
Facility Description Physical (1) - MANDATORY								Cover						Growth Media					
	Description (required)	Туре	Underlying Ground Slope % grade	Ungraded Slope _H:1V	Final Slope _H:1V	Final Top Slope % grade	Lift (heap) Height ft	Mid-Bench Length ft	Average Flat Area Long Dimension (ripping distance) ft	Final (Regraded) Heap Footprint acres	Regrade Volume (if calculated elsewhere) cy	Cover Thickness Slopes in	Cover Thickness Flat Areas in	Distance from Cover Borrow ft	Slope from Heap to Cover Borrow % grade	Slope Growth Media Thickness in	Flat Area Growth Media Thickness in	Distance from Growth Material Stockpile ft	Slope from Heap to Stockpile % grade
	1 Rosemont Heap Leach Facility	Heap Leach	6.0	2.3	2.3	1.0	350	1000	1000	336.00						18.0	18.0	5,000	6.0

Notes:

All Physical parameters must be input even if manual overrides for volume or area are used.

2. If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet)

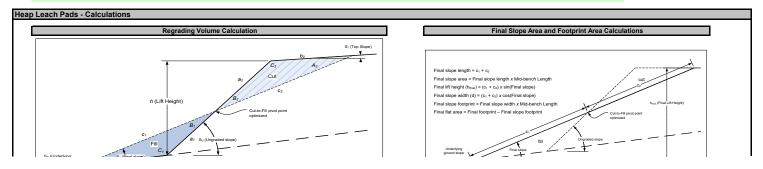
Hea	Heap Leach Pads - User Input (cont.) You must fill in ALL green cells and relevant blue cells in this section for each heap, lift or heap category																	
	Grading Cover Growth Media Revegetation																	
	Description (required)	Regrading Material Condition (select)	Regrading Material Type (select)	Regrading Equipment Fleet (select)	Slot/ Side-by-Side (select)	Cover Material Type (select)	Cover Placement Equipment Fleet (select)	Growth Media Material Type (select)	Growth Media Equipment Fleet (select)	Seed Mix Slopes (select)	Seed Mix Flat Areas (select)	Mulch Slopes (select)	Mulch Flat Areas (select)	Fertilizer Slopes (select)	Fertilizer Flat Areas (select)	Slope Scarify/ Rip? (select)	Flat Area Scarify/ Rip? (select)	Scarifying/ Ripping Fleet (select)
1	Rosemont Heap Leach Facility	1	LS - broken	Large	No		Large Truck	Alluvium	Large Truck	None	None	None	None	None	None	No	No	Large Dozer

Notes:

1. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

He	Heap Leach Pads - User Input (cont.)												
	Solution Collection Ditch Fill Piping												
	Description (required)	Collection Ditch Length ft	Collection Ditch Top Width ft	Collection Ditch Depth ft	Volume (if calculated elsewhere) cy	Distance from Borrow ft	Slope to Borrow % grade	Drain Rock Equipment Fleet (select)	Solid Pipe Length ft	Solid Pipe Type (select)	Drainage Pipe Length ft	Drainage Pipe Type (select)	
1	Rosemont Heap Leach Facility		1000 6in (150 mm) HDPE										

Notes:



8/10/2022

Page 1 of 3 Heap Leach

Closure Cost Estimate Heap Leach

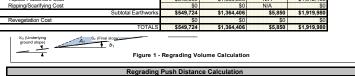
Project Name: Rosemont Copper World Conceptual Closure Plan - Reclamation Plan Date of Submittal: July 20, 2022
File Name: Copy of ROSEMONT Copper World SRCE_APP_Revised July 28 2022.xism

Model Version: Version 1.4.1 Cost Data: User Data

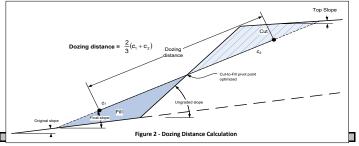
Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

	Labor	Equipment	Materials	Totals
Drain Installation	\$1,155	\$810	\$5,850	\$7,815
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$548,569	\$1,363,596	N/A	\$1,912,165
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$549,724	\$1,364,406	\$5,850	\$1,919,980
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$549,724	\$1,364,406	\$5.850	\$1,919,980







Minimum 1 hr ripping/scarifying per area

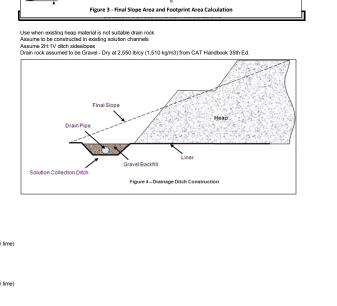
Number of passes = Final slope length + Grader width Travel distance = Number of passes x Mid-bench length Total hours = (Travel distance + Grader productivity) + (Number of passes x Grader maneuver time)

Flat Areas:
Flat area width = Final flat area + Average long dimensions
Number of passes = Flat area width + Grader width

Travel distance = Number of passes x Average long dimensions

Total hours = (Travel distance + Grader productivity) + (Number of passes x Grader maneuver time)

Revegetation: Minimum 1 acre revegetation crew time per area



Heap	Heap Leach Pad - Drainage Channel Fill & Drainage Pipe Installation														
			Drain Rock Placement								Drainpipe Installation				
	Description (required)	Drain Rock Volume cy	Drain Rock Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours hrs	Drainage Labor Cost \$	Drainage Equipment Cost \$	Total Drainage Cost \$	Piping Crew Hours hrs	Piping Labor Cost \$	Piping Equipment Cost \$	Piping Material Cost \$	Total Pipe Installation Cost \$	
1	Rosemont Heap Leach Facility	0					\$0	\$0	\$0	3	\$1,155	\$810	\$5,850		
						0	\$0	\$0	\$0	3	\$1,155	\$810	\$5,850	\$7,815	

	Heap Leach Pad - Regrading Costs Productivity = Dozer Productivity x Grade Correction x Density Correction x Operator (0.75) x Material x Visibility x Job Efficiency (0.83) x (Slot/Side-by-Side) x (Altitude Deration)													
	Description (required)	Regrading Volume	Dozing Distance (see above) ft	Regrading Fleet	Uncorrected Dozer Productivity cy/hr	Grade Correction	Dozing Material	Density Correction	Side-by-Side or Slot Dozing	Total Hourly Productivity	Total Dozer Hours hr	Total Labor Cost \$	Total Equipment Cost	Total Regrading Cost \$
1	Rosemont Heap Leach Facility	0		D10R								\$0	\$0	\$0
												\$0	\$0	\$0

Heap Leach Pad - Cover and Growth Media Costs																
					Growth Medi	a Placement										
Description (required)	Cover Volume cy	Cover Replacement Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Cover Labor Cost	Cover Equipment Cost \$	Total Cover Cost \$	Growth Media Volume cy	Growth Media Replacement Fleet	Fleet Productivity BCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost \$	Total Equipment Cost \$	Total Growth Media Cost \$

8/10/2022

Page 2 of 3 Heap Leach

Closure Cost Estimate Heap Leach

Project Name: Rosemont Copper World Conceptual Closure Plan - Reclamation Plan
Date of Submittal: July 20, 2022
File Name: Copy of ROSEMONT Copper World SRCE_APP_Revised July 28 2022.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12.xlsm
Cost Estimate Type: Surety
Cost Basis: Southern Nevada - Adjusted for Arizona

	Labor	Equipment	Materials	Totals
Drain Installation	\$1,155	\$810	\$5,850	\$7,815
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$548,569	\$1,363,596	N/A	\$1,912,165
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$549,724	\$1,364,406	\$5,850	\$1,919,980
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$549,724	\$1,364,406	\$5.850	\$1,919,980

1 Rosemont Heap Leach Facility	0	\$0	\$0	\$0	817,176	769D/988G/D7R 677	4 1,207	\$548,5		\$1,912,165
		\$0	\$0	\$0	817,176		1,207	\$548,5	\$1,363,596	\$1,912,165
							·			

Heap Leach Pad - Scarifying/Revegetation Costs															
Description (required)	Slope Area acres	Flat Area acres	Total Surface Area acres	Final Slope Length ft	Flat Area Long Dimension ft	Ripping/ Scarifying Fleet	Slope Scarifying/ Ripping Hours hrs	Flat Area Scarifying/ Ripping Hours hrs	Scarifying/ Ripping Labor Costs \$	Scarifying/ Ripping Equipment Cost \$	Total Scarifying/ Ripping Costs \$	Revegetation Labor Cost \$	Revegetation Equipment Cost	Revgetation Material Cost	Total Revegetation Cost \$
1 Rosemont Heap Leach Facility	20.16 20.16	317.50 317.50	337.66 337.66	878		D10R			\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$1 \$1

1) Minimum total ripping hours = 1 (i.e. If total ripping hrs (slope + flat) < 1, then one hour of fleet time is assumed, regardless of acres shown in in scarifying table.)

Closure Cost Estimate Tailings

Project Name: Rosemont Copper World Conceptual Closure Plan - Reclamation Plan Date of Submittal: July 20, 2022

File Name: Copy of ROSEMONT Copper World SRCE_APP_Revised July 28 2022.xlsm Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm
Cost Estimate Type: Surety
Cost Basis: Southern Nevada - Adjusted for Arizona

	Labor	Equipment	Materials	Totals
Embankment Regrading Cost	\$0	\$0	N/A	\$0
Tailings Surface Grading Cost	\$170,012	\$690,463	N/A	\$860,475
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$3,278,926	\$8,587,687	N/A	\$11,866,613
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$3,448,938	\$9,278,150	\$0	\$12,727,088
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$3,448,938	\$9.278,150	\$0	\$12,727,088

Color Code Key	
User Input - Direct Input	Direct Input
User Input - Pull Down List	Pull Down Selection
Program Constant (can override)	Alternate Input
Program Calculated Value	Locked Cell - Formula or Reference

Tailir	ngs - User Input					You must fill	in ALL gree	n cells and rele	vant blue cells i	n this section	for each tailings in	mpoundment					
	Facility Description				P	hysical - MA	ANDATORY	1				Co	ver		Grow	th Media	
	Description (required)	ID Code	Underlying Ground Slope % Grade	Ungraded Slope _H:1V	Final (Regraded) Embankment Slope _H:1V	Final Embankment Height	Final Tailings Surface Area acres	Mid- Embankment or Ripping Length	Embankment Regrade Volume (if calculated elsewhere) cy	Surface Regrade Volume (calculated elsewhere)	Embankment Cover Thickness in	Tailings Surface Cover Thickness in	Distance from Cover Borrow ft	Embankment Growth Media Thickness in	Tailings Surface Growth Media Thickness in	Distance from Growth Material Stockpile ft	Slope from Tailings to Stockpile % grade
1	TSF - 1 Cell 1		9.1	2.5	2.5	300	383.70	3,000		215,586				18.0	18.0	10,000	9.1
2	TSF - 1 Cell 2		9.1	2.5	2.5	270	316.40	2,000		177,948				18.0	18.0	8,000	9.1
3	TSF - 1 Cell 3		9.1	2.5	2.5	240	245.90	1,500		108,721				18.0	18.0	8,000	9.1
	TSF - 2 Cell 1		8.5	2.5	2.5	215	176.00	1,000		96,177				18.0	18.0	8,000	8.5
- 5	TSE - 2 Call 2		9.5	2.5	2.5	262	131 00	1 000		73 443				18.0	19.0	8 000	8.5

Notice:

1. All Physical parameters must be input even if manual overrides for volume or area are used.

2. If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet) Assumes cover material hauled from WFb or from immediately adjacent to TSF facilities

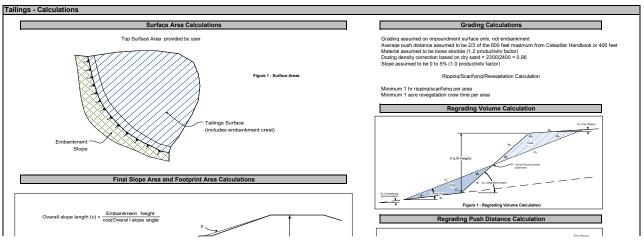
Assumes embankment constructed at final slope so no regrading required.

Assumes mitor regrading of fallings surface (1 foot depth over 15 of tallings area) for drainage

Tailings - User Input (cont.)				You must fill	in ALL green o	ells and relev	ant blue cells	in this section t	for each tailin	gs impoundment							
		Gradii	ng		Co	ver	Grow	th Media					Revegetation				
Description (required)	Regrading Material Condition (select)	Embankment Material Type (select)	Regrading Equipment Fleet (select)	Slot/Side-by- Side (select)	Cover Material Type (select)	Cover Placement Equipment Fleet (select)	Growth Media Material Type (select)	Growth Media Equipment Fleet (select)		Seed Mix Tailings Surface (select)	Mulch Embankment Slopes (select)	Mulch Tailings Surface (select)	Fertilizer Embankment Slopes (select)	Fertilizer Tailing Surface (select)	Embankment Slope Scarify/ Rip? (select)	Taillings Surface Scarify/ Rip? (select)	Scarifying/ Ripping Fleet (select)
1 TSF - 1 Cell 1	1.2	Tailings - Coarse	Large	No			Alluvium	Large Truck	None	None	None	None	None	None	No	No	Large Dozer
2 TSF - 1 Cell 2	1.2	Tailings - Coarse	Large	No			Alluvium	Large Truck	None	None	None	None	None	None	No	No	Large Dozer
3 TSF - 1 Cell 3	1.2	Tailings - Coarse	Large	No			Alluvium	Large Truck	None	None	None	None	None	None	No	No	Large Dozer
4 TSF - 2 Cell 1	1.2	Tailings - Coarse	Large	No			Alluvium	Large Truck	None	None	None	None	None	None	No	No	Large Dozer
5 TSF - 2 Cell 2	1.2	Tailings - Coarse	Large	No			Alluvium	Large Truck	None	None	None	None	None	None	No	No	Large Dozer

Notes:

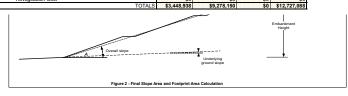
1. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

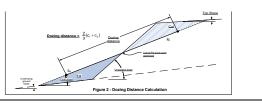


8/10/2022 Copyright C 2004 - 2009 SRCE Software, All Right

Page 1 of 2 Tailings Project Name: Rosemont Copper World Conceptual Closure Plan - Reclamation Plan Date of Submittal: July 20, 2022
File Name: Copy of ROSEMONT Copper World SRCE_APP_Revised July 28 2022.xlsm Model Version: Version 1.4.1
Cost Data: User Data
Cost Data: File: SRCE_Cost_data-USR_1_12.xlsm
Cost Eata File: SRCE_Cost_ Cost_ Cost_Data File: SRCE_Cost_Data-USR_1.10.xlsm

	Labor	Equipment	Materials	Totals
Embankment Regrading Cost	\$0	\$0	N/A	\$0
Tailings Surface Grading Cost	\$170,012	\$690,463	N/A	\$860,475
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$3,278,926	\$8,587,687	N/A	\$11,866,613
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$3,448,938	\$9,278,150	\$0	\$12,727,088
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$3,448,938	\$9,278,150	\$0	\$12,727,088





Taili	ings - Embankment Regrading Costs													
Prod	luctivity = Dozer Productivity x Grade Correction x	Density Cor	rection x Opera	tor (0.75) x	Material x Vi	sibility x Jo	Efficiency	(0.83) x (Slo	ot/Side-by-Sid	le) x (Altitud	le Deration)			
	Description (required)	Regrading Volume cy	Dozing Distance (see above)	Regrading Fleet	Uncorrected Dozer Productivity cy/hr	Grade Correction	Dozing Material Condition	Density Correction	Side-by-Side or Slot Dozing	Total Hourly Productivity cy/hr	Total Dozer Hours	Total Labor Cost \$	Total Equipment Cost \$	Total Regrading Cost \$
- 1	TSF - 1 Cell 1	0		D10R								\$0	\$0	\$0
2	TSF - 1 Cell 2	0		D10R								\$0	\$0	\$0
3	TSF - 1 Cell 3	0		D10R								\$0	\$0	\$0
4	TSF - 2 Cell 1	0		D10R								\$0	\$0	\$0
5	TSF - 2 Cell 2	0		D10R								\$0	\$0	
												\$0	SO.	SO.

rod	ductivity = Dozer Productivity x Grade Correction x Density Correction x Operator (0.75) x Material x Visibility x Job Efficiency (0.83) x (Slot/Side-by-Side) x (Altitude Deration)														
	Description (required)	Regrading Volume cy	Dozing Distance (see above)	Regrading Fleet	Uncorrected Dozer Productivity cy/hr	Grade Correction	Density Correction	Dozing Material	Side-by-Side or Slot Dozing	Total Hourly Productivity cy/hr	Total Dozer Hours	Total Labor Cost \$	Total Equipment Cost \$	Total Regrading Cost \$	
1	TSF - 1 Cell 1	215,586	400	D10R	501	1.00	0.96	1.20	1.00	359	601	\$54,553	\$221,553	\$276,106	
2	TSF - 1 Cell 2	177,948	400	D10R	501	1.00	0.96	1.20	1.00	359	496	\$45,022	\$182,845	\$227,867	
3	TSF - 1 Cell 3	108,721	400	D10R	501	1.00	0.96	1.20	1.00	359	303	\$27,503	\$111,698	\$139,201	
4	TSF - 2 Cell 1	96,177	400	D10R	501	1.00	0.96	1.20	1.00	359	268	\$24,326	\$98,796	\$123,122	
5	TSF - 2 Cell 2	73,443	400	D10R	501	1.00	0.96	1.20	1.00	359	205	\$18,608	\$75,571	\$94,179	
		671,875									1,873	\$170,012	\$690,463	\$860,475	

Tailii	ings - Cover and Growth Media Costs																
					Cover Pla	cement							Growth Medi	a Placement			
	Description (required)	Cover Volume	Cover Placement Fleet	Cover Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost \$	Total Equipment Cost \$	Total Cover Placement Cost \$	Growth Media Volume cy	Growth Media Placement Fleet	Growth Media Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost	Total Equipment Cost \$	Total Growth Media Cost \$
- 1	TSF - 1 Cell 1						\$0	\$0	\$0	1,063,227	769D/988G/D7R	747	9	1,423	\$1,133,619	\$2,982,451	\$4,116,070
2	TSF - 1 Cell 2						\$0	\$0	\$0	846,468	769D/988G/D7R	784	8	1,080	\$786,467	\$2,054,873	\$2,841,340
3	TSF - 1 Cell 3						\$0	\$0	\$0	648,923	769D/988G/D7R	784	8	828	\$602,958	\$1,575,402	\$2,178,360
	TSF - 2 Cell 1						\$0	\$0	\$0	458,082	769D/988G/D7R	784	8	584	\$425,275		
5	TSF - 2 Cell 2						\$0	\$0	\$0	356,176	769D/988G/D7R	784	8	454	\$330,607	\$863,808	\$1,194,415
							\$0	\$0	\$0	3,372,875				4,369	\$3,278,926	\$8,587,687	\$11,866,613

Taili	ngs - Scarifying/Revegetation Costs														
	Description (required)	Embankment Slope Area acres	Tailings Surface Area acres	Total Surface Area acres	Final Slope Length ft	Ripping/ Scarifying Fleet	Slope Scarifying/ Ripping Hours hrs	Flat Area Scarifying/ Ripping Hours hrs	Scarifying/ Ripping Labor Cost \$	Scarifying/ Ripping Equipment Cost \$	Total Scarifying/ Ripping Cost \$	Revegetation Labor Cost \$	Revegetation Equipment Cost	Revgetation Material Cost	Total Revegetation Cost \$
- 1	TSF - 1 Cell 1	55.65	383.70	439.35	808	D10R			\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	TSF - 1 Cell 2	33.38	316.40	349.78	727	D10R			\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	TSF - 1 Cell 3	22.25	245.90	268.15	646	D10R			\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	TSF - 2 Cell 1	13.29	176.00	189.29	579	D10R			\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	TSF - 2 Cell 2	16.18	131.00	147.18	705	D10R			\$0	\$0	\$0	\$0	\$0	\$0	\$0
		140.75	1253.00	1.393.75					\$0	\$0	\$0	\$0	\$0	SC	\$0

Closure Cost Estimate Sediment & Drainage Control

Project Name: Rosemont Copper World Conceptual Closure Plan - Reclamation Plan Date of Submittal: July 20, 2022
File Name: Copy of ROSEMONT Copper World SRCE_APP_Revised July 28 2022.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xism

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

	Labor	Equipment	Materials	Totals
Diversion Ditch Construction	\$13,259	\$30,883	N/A	\$44,14
Diversion Ditch Liner	\$0	\$0	\$0	\$0
Diversion Ditch Rip-Rap	\$1,214,957	\$226,696	\$623,303	\$2,064,956
Sed Pond Construct/Regrade	\$3,270	\$13,272	N/A	\$16,542
Liner Installation	\$0	\$0	\$0	\$0
Sed Pond Cover	\$3,258	\$8,898	N/A	\$12,156
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$1,234,744	\$279,749	\$623,303	\$2,137,796
Diversion Ditch Revegetation	\$0	\$0	\$0	\$0
Sediment Pond Revegetation	\$0	\$0	\$0	\$0
Subtotal Revegetation	\$0	\$0	\$0	\$0
TOTALS	\$1,234,744	\$279,749	\$623,303	\$2,137,796

Color Code Key	
User Input - Direct Input	Direct Input
User Input - Pull Down List	Pull Down Selection
Program Constant (can override)	Alternate Input
Program Calculated Value	Locked Cell - Formula or Reference

Div	ersion Ditches - User Input															
					Div	ersions Ditch	es				Revegetatio	n		Liner and Rip	-Rap Installat	ion
	Description (required)	ID Code	Diversion Length ft	Diversion Depth ft	Ditch Bottom Width ft	Ditch Sideslope Angle _H:1V	Excavate Volume (if calculated elsewhere) cy	Excavating Material Condition (select)	Excavating Equipment Fleet (select)	Seed Mix (select)	Mulch (select)	Fertilizer (select)	Liner Area S.Y.	Liner Type (select)	Rip-Rap Area S.Y.	Rip-Rap Type (select type)
1	Stormwater Ditch - no riprap		44800	3.0	6.0	2.0		1	Large	None	None	None	0		0	
2	Stormwater Ditch - rip rap lined		11200	3.0	6.0	2.0		1	Large	None	None	None	0		24,142	Gabions, 12 in (30
3	TSF1 Cell 1 Downchute		2500	3.0	7.0	3.0		1.2	Medium	None	None	None	0		1,950	Gabions, 36 in (1r
4	TSF1 Cell 2 Downchute		2500	3.0	7.0	3.0		1.2	Medium	None	None	None	0		1,950	Gabions, 36 in (1r
5	TSF1 Cell 3 Downchute		2500	3.0	7.0	3.0		1.2	Medium	None	None	None	0		1,950	Gabions, 36 in (1r
	TSF2 Cell 1 Downchute		2000	3.0	7.0	3.0		1.2	Medium	None	None	None	0		1,560	Gabions, 36 in (1r
7	TSF2 Cell 2 Downchute		2000	3.0	7.0	3.0		1.2	Medium	None	None	None	0		1,560	Gabions, 36 in (1r

Notes: Riprap assumes bottom and sides of ditch covered

Se	diment/Evaporation Pond Construction/Rer	noval - Use	er Input										
						Sedimen	t Ponds					Growth Media	
	Description (required)	ID Code	Pond Width ft	Pond/Berm Length ft	Berm Height ft	Crest Width ft	Sideslope Angle _H:1V	Final Area (if calculated elsewhere) acres	Regrade Volume (if calculated elsewhere) cy	Cover Volume (if calculated elsewhere) cy	Growth Media Thickness in	Distance from Growth Media Stockpile ft	Slope from Pond to Borrow % grade
1	Retention Pond 1		100	300	10.0	17.0	2.0				12	500	5.0
2	Retention Pond 2		100	300	10.0	17.0	2.0				12	500	5.0
3	Retention Pond 3		100	300	10.0	17.0	2.0				12	500	5.0
4	Retention Pond 4		100	300	10.0	17.0	2.0				12	500	5.0
5	Retention Pond 5		100	300	10.0	17.0	2.0				12	500	5.0
6	Retention Pond 6		100	300	10.0	17.0	2.0				12	500	5.0

Notes:
1. All Physical parameters must be input even if manual overrides for volume or area are used.
2. If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet)
3. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

Berm dimensions assume all material removed for pond is used for berm construction

Se	Sediment/Evaporation Pond Construction/Removal - User Input (cont.)														
	Sediment Ponds Growth Media Revegetation Ripping/Scarifying														
	Description (required)	Excavating Material Condition	Material Type	Excavating Equipment Fleet	Liner Type	Growth Media Material Type	Growth Media Placement Equipment Fleet	Maximum Fleet Size (user override)	Seed Mix	Mulch	Fertilizer	Scarify/ Rip?	Scarify/ Ripping Fleet		

Project Name: Rosemont Copper World Conceptual Closure Plan - Reclamation Plan Date of Submittal: July 20, 2022
File Name: Copy of ROSEMONT Copper World SRCE_APP_Revised July 28 2022.xlsm

Model Version: Version 1.4.1

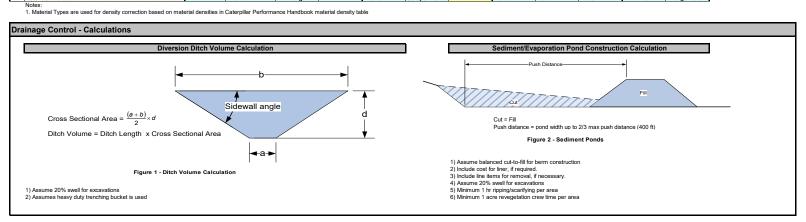
Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xism

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

	Labor	Equipment	Materials	Totals
Diversion Ditch Construction	\$13,259	\$30,883	N/A	\$44,142
Diversion Ditch Liner	\$0	\$0	\$0	\$0
Diversion Ditch Rip-Rap	\$1,214,957	\$226,696	\$623,303	\$2,064,956
Sed Pond Construct/Regrade	\$3,270	\$13,272	N/A	\$16,542
Liner Installation	\$0	\$0	\$0	\$0
Sed Pond Cover	\$3,258	\$8,898	N/A	\$12,156
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$1,234,744	\$279,749	\$623,303	\$2,137,796
Diversion Ditch Revegetation	\$0	\$0	\$0	\$0
Sediment Pond Revegetation	\$0	\$0	\$0	\$0
Subtotal Revegetation	\$0	\$0	\$0	\$0
TOTALS	\$1,234,744	\$279,749	\$623,303	\$2,137,796

		(select)	(select)	(select)	(select)	(select)	(select)	(select)	(select)	(select)	(select)	(select)
1	Retention Pond 1	1	Alluvium	Large		Alluvium	Scraper Dozer	None	None	None	No	Large Dozer
2	Retention Pond 2	1	Alluvium	Large		Alluvium	Scraper Dozer	None	None	None	No	Large Dozer
3	Retention Pond 3	1	Alluvium	Large		Alluvium	Scraper Dozer	None	None	None	No	Large Dozer
4	Retention Pond 4	1	Alluvium	Large		Alluvium	Scraper Dozer	None	None	None	No	Large Dozer
5	Retention Pond 5	1	Alluvium	Large		Alluvium	Scraper Dozer	None	None	None	No	Large Dozer
6	Retention Pond 6	1	Alluvium	Large		Alluvium	Scraper Dozer	None	None	None	No	Large Dozer



Div	ersion Ditches - Excavation Costs															
										Liner Ins	tallation			Rip-Rap	Installation	
	Description (required)	Total Diversion Ditch Cost \$	Total Labor Cost \$	Total Equipment Cost \$	Total Material Cost \$	Total Liner Cost	Labor Cost \$	Equipment Cost \$	Material Cost \$	Total Cost \$						
1	Stormwater Ditch - no riprap	71,680	385BL	935	77	\$6,945	\$18,545	\$25,490	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Stormwater Ditch - rip rap lined	17,920	385BL	935	19	\$1,714	\$4,576	\$6,290	\$0	\$0	\$0	\$0	\$623,834	\$116,365	\$345,233	\$1,085,432
3	TSF1 Cell 1 Downchute	5,333	345B	480	11	\$992	\$1,674	\$2,666	\$0	\$0	\$0	\$0	\$128,505	\$23,985	\$60,450	\$212,940
4	TSF1 Cell 2 Downchute	5,333	345B	480	11	\$992	\$1,674	\$2,666	\$0	\$0	\$0	\$0	\$128,505	\$23,985	\$60,450	\$212,940
5	TSF1 Cell 3 Downchute	5,333	345B	480	11	\$992	\$1,674	\$2,666	\$0	\$0	\$0	\$0	\$128,505	\$23,985	\$60,450	\$212,940
	TSF2 Cell 1 Downchute	4,267	345B	480	9	\$812	\$1,370	\$2,182		\$0	\$0	\$0	\$102,804	\$19,188	\$48,360	\$170,352
7	TSF2 Cell 2 Downchute	4,267	345B	480	9	\$812	\$1,370	\$2,182		\$0	\$0	\$0	\$102,804		\$48,360	\$170,352
	·	114,133			147	\$13,259	\$30,883	\$44,142	\$0	\$0	\$0	\$0	\$1,214,957	\$226,696	\$623,303	\$2,064,956

Notes: LCM assumes 20% swell from ditch volume

Diversion Ditches - Revegetation Costs

Closure Cost Estimate Sediment & Drainage Control

Project Name: Rosemont Copper World Conceptual Closure Plan - Reclamation Plan Date of Submittal: July 20, 2022 File Name: Copy of ROSEMONT Copper World SRCE_APP_Revised July 28 2022.xlsm Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm
Cost Estimate Type: Surety
Cost Basis: Southern Nevada - Adjusted for Arizona

	Labor	Equipment	Materials	Totals
Diversion Ditch Construction	\$13,259	\$30,883	N/A	\$44,142
Diversion Ditch Liner	\$0	\$0	\$0	\$0
Diversion Ditch Rip-Rap	\$1,214,957	\$226,696	\$623,303	\$2,064,956
Sed Pond Construct/Regrade	\$3,270	\$13,272	N/A	\$16,542
Liner Installation	\$0	\$0	\$0	\$0
Sed Pond Cover	\$3,258	\$8,898	N/A	\$12,156
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$1,234,744	\$279,749	\$623,303	\$2,137,796
Diversion Ditch Revegetation	\$0	\$0	\$0	\$0
Sediment Pond Revegetation	\$0	\$0	\$0	\$0
Subtotal Revegetation	\$0	\$0	\$0	\$0
TOTALS	\$1,234,744	\$279,749	\$623,303	\$2,137,796

	Description (required)	Surface Area acres	Revegetation Labor Cost \$	Revegetation Equipment Cost \$	Revgetation Material Cost \$	Total Revegetation Cost \$
1	Stormwater Ditch - no riprap	20.00	\$0	\$0	\$0	\$0
2	Stormwater Ditch - rip rap lined	5.00	\$0	\$0	\$0	\$0
3	TSF1 Cell 1 Downchute	1.50	\$0	\$0	\$0	\$0
4	TSF1 Cell 2 Downchute	1.50	\$0	\$0	\$0	\$0
5	TSF1 Cell 3 Downchute	1.50	\$0	\$0	\$0	\$0
6	TSF2 Cell 1 Downchute	1.20	\$0	\$0	\$0	\$0
7	TSF2 Cell 2 Downchute	1.20	\$0	\$0	\$0	\$0
		31.90	\$0	\$0	\$0	\$0

Sediment/Evaporation Ponds - Construction	ediment/Evaporation Ponds - Construction/Regrading Costs															
Productivity = Dozer Productivity x Grade Correction	n x Density Co	orrection x Oper	ator (0.75) x	Material x Vis	ibility x Job E	fficiency (0.8	3)				Earthwork			Liı	ner	
Description (required)	Corrected Productivity LCY/hr	Total Dozer Hours hr	Total Labor Cost \$	Total Equipment Cost \$	Total Constr/ Regrading Cost \$	Total Labor Cost \$	Total Equipment Cost \$	Total Material Cost \$	Total Liner Cost							
1 Retention Pond 1	4,933	D10R	100	1,627	1.00	0.79	1.00	800	6	\$545	\$2,212	\$2,757	\$0	\$0	\$1	\$0
2 Retention Pond 2	4,933	D10R	100	1,627	1.00	0.79	1.00	800	6	\$545	\$2,212	\$2,757	\$0	\$0	\$1	\$0
3 Retention Pond 3	4,933	D10R	100	1,627	1.00	0.79	1.00	800	6	\$545	\$2,212	\$2,757	\$0	\$0	\$	\$0
4 Retention Pond 4	4,933	D10R	100	1,627	1.00	0.79	1.00	800	6	\$545	\$2,212	\$2,757	\$0	\$0	\$	\$0
5 Retention Pond 5	4,933	D10R	100	1,627	1.00	0.79	1.00	800	6	\$545	\$2,212	\$2,757	\$0	\$0	\$	\$0
6 Retention Pond 6	4,933	D10R	100	1,627	1.00	0.79	1.00	800	6	\$545	\$2,212	\$2,757	\$0	\$0	\$1	\$0
	29,598								36	\$3,270	\$13,272	\$16,542	\$0	\$0	\$	\$0

			Growth Media												
	Description (required)	Growth Media Volume cy	Growth Media Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost \$	Total Equipment Cost	Total Cover Placement Cost \$						
1	Retention Pond 1	1,775	631G/D10R/D7R	802	1	2	\$543	\$1,483	\$2,026						
2	Retention Pond 2	1,775		802	1	2	\$543	\$1,483	\$2,026						
3	Retention Pond 3	1,775		802	1	2	\$543	\$1,483	\$2,026						
4	Retention Pond 4	1,775	631G/D10R/D7R	802	1	2	\$543	\$1,483	\$2,026						
5	Retention Pond 5	1,775	631G/D10R/D7R	802	1	2	\$543	\$1,483	\$2,026						
6	Retention Pond 6	1,775	631G/D10R/D7R	802	1	2	\$543	\$1,483	\$2,026						
		10.650				12	\$3,258	\$8,898	\$12,156						

Sec	Sediment/Evaporation Ponds - Revegetation Costs													
	Description (required)	Surface Area acres	Long Ripping Distance	Ripping/ Scarifying Fleet	Scarifying/ Ripping Hours hrs	Scarifying/ Ripping Labor Costs	Scarifying/ Ripping Equipment Cost	Total Scarifying/ Ripping Costs	Revegetation Labor Cost	Revegetation Equipment Cost	Revgetation Material Cost	Total Revegetation Cost \$		
1	Retention Pond 1	1.10	300	D10R		\$0	\$0	\$0	\$0	\$0	\$0	\$		
2	Retention Pond 2	1.10	300	D10R		\$0	\$0	\$0	\$0	\$0	\$0	\$		
3	Retention Pond 3	1.10	300	D10R		\$0	\$0	\$0	\$0	\$0	\$0	\$		
4	Retention Pond 4	1.10	300	D10R		\$0	\$0	\$0	\$0	\$0	\$0	\$		
5	Retention Pond 5	1.10	300	D10R		\$0	\$0	\$0	\$0	\$0	\$0	\$		
6	Retention Pond 6	1.10	300	D10R		\$0	\$0	\$0	\$0	\$0	\$0	\$		
		6.60			0	\$0	\$0	\$0	\$0	\$0	\$0	\$(

Closure Cost Estimate Process Ponds

Project Name: Rosemont Copper World Conceptual Closure Plan - Reclamation Plan

Date of Submittal: July 20, 2022

File Name: Copy of ROSEMONT Copper World SRCE_APP_Revised July 28 2022.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm
Cost Estimate Type: Surety
Cost Basis: Southern Nevada - Adjusted for Arizona

Process Ponds - Cost Summary				
·	Labor	Equipment	Materials	Totals
Backfilling Costs	\$59,089	\$177,586	N/A	\$236,675
Growth Media Placement Costs	\$3,773	\$9,080	N/A	\$12,853
Liner Cutting & Folding Costs	\$21,728	\$8,912	N/A	\$30,640
Subtotal Earthworks	\$84,590	\$195,578	\$0	\$280,168
Revegetation Costs	\$0	\$0	\$0	\$0
TOTALS	\$84,590	\$195,578	\$0	\$280,168

Color Code Key	
User Input - Direct Input	Direct Input
User Input - Pull Down List	Pull Down Selection
Program Constant (can override)	Alternate Input
Program Calculated Value	Locked Cell - Formula or Reference

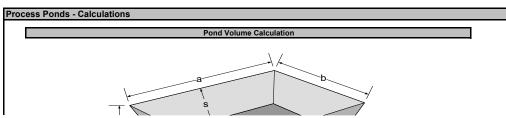
Prod	Process Ponds - User Input You must fill in ALL green cells and relevant blue cells in this section for each pond													
	Facility Description		Pond Dimensions (1)				Backfill - (If trucks are used) (1)				Growth Media			
	Description (required)	ID Code	Pond Length ft	Pond Width ft	Pond Depth ft	Pond Sideslope Angle _H:1V	Disturbed Area (if calculated elsewhere) acres	Percent Backfill (100% if blank)	Distance from Backfill Borrow	Slope from Facility to Borrow Area % grade	Pond Volume (if calculated elsewhere)		Distance from Growth Media Stockpile ft	Slope from Facility to Stockpile % grade
1	Reclaim Pond		300	200	20.0	3.0		100%	500	8%		6	7,000	8%
2	Raffinate Pond		300	200	20.0	3.0		100%	500	8%		6	7,000	8%
3	Process Area Stormwater Pond		300	200	20.0	3.0		100%	500	8%		6	7,000	8%
4	Primary Settling Pond		500	400	20.0	3.0		40%	500	8%		0		
5	Pregnant Solution Pond		300	200	20.0	3.0		40%	500	8%		0		
6	HLF North Stormwater Pond		300	200	20.0	3.0		40%	500	8%		0		
7	HLF South Stormwater Pond		300	200	20.0	3.0		100%	500	8%		6	10,000	8%

Notes:
1. All Physical parameters must be input even if manual overrides for volume or area are used.
2. If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet)

Pro	Process Ponds - User Input (cont.)													
		Liner	Backfill				Frowth Medi	а	Revegetation					
	Description (required)	Crew Cut & Fold Time ⁽²⁾ hrs	Backfill Material Type (select)	Backfill Equipment Fleet (select)	Maximum Fleet Size (user override)	Growth Media Material Type (select)	Growth Media Placement Equipment Fleet (select)	Maximum Fleet Size (user override)	Seed Mix (select)	Mulch (select)	Fertilizer (select)			
1	Reclaim Pond	24.0	Alluvium	Med Dozer		Alluvium	Med Truck		None	None	None			
2	Raffinate Pond	24.0	Alluvium	Med Dozer		Alluvium	Med Truck		None	None	None			
3	Process Area Stormwater Pond	24.0	Alluvium	Med Dozer		Alluvium	Med Truck		None	None	None			
4	Primary Settling Pond		Gravel	Med Dozer					None	None	None			
5	Pregnant Solution Pond		Gravel	Med Dozer					None	None	None			
6	HLF North Stormwater Pond		Gravel	Med Dozer					None	None	None			
7	HLF South Stormwater Pond	24.0	Alluvium	Med Dozer		Alluvium	Med Truck		None	None	None			

1. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

(2) Pond liner removal crew (2Clab + excavator) = 2 General Laborers + 325C Excavator



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Page 1 of 3 Process Ponds

Closure Cost Estimate Process Ponds

Project Name: Rosemont Copper World Conceptual Closure Plan - Reclamation Plan

Date of Submittal: July 20, 2022

File Name: Copy of ROSEMONT Copper World SRCE_APP_Revised July 28 2022.xlsm

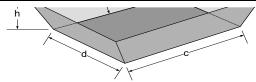
Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Process Ponds - Cost Summary											
	Labor	Equipment	Materials	Totals							
Backfilling Costs	\$59,089	\$177,586	N/A	\$236,675							
Growth Media Placement Costs	\$3,773	\$9,080	N/A	\$12,853							
Liner Cutting & Folding Costs	\$21,728	\$8,912	N/A	\$30,640							
Subtotal Earthworks	\$84,590	\$195,578	\$0	\$280,168							
Revegetation Costs	\$0	\$0	\$0	\$0							
TOTALS	\$84,590	\$195,578	\$0	\$280,168							



Area and Volume of the Frustrum of a Pyramid

Surface Area =
$$ab + cd + (a+b+c+d) \times \frac{s}{2}$$

Volume = $\frac{h(ab + cd + \sqrt{abcd})}{3}$

Revegetation Calculations

Minimum 1 acre revegetation crew time per area

Proc	cess Ponds - Liner Cutting and Fol	ding			
	Description (required)	Crew Hours	Total Labor Cost \$	Total Equipment Cost \$	Total Liner Removal Cost \$
1	Reclaim Pond	24	\$5,432	\$2,228	\$7,660
2	Raffinate Pond	24	\$5,432	\$2,228	\$7,660
3	Process Area Stormwater Pond	24	\$5,432	\$2,228	\$7,660
4	Primary Settling Pond		\$0	\$0	\$0
5	Pregnant Solution Pond		\$0	\$0	\$0
6	HLF North Stormwater Pond		\$0	\$0	\$0
7	HLF South Stormwater Pond	24	\$5,432	\$2,228	\$7,660
		96	\$21,728	\$8,912	\$30,640

Prod	Process Ponds - Backfill and Growth Media Costs																
					Pond Ba	ackfill				Growth Media							
	Description (required)	Backfill Volume	Backfill Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours hrs	Total Labor Cost \$	Total Equipment Cost \$	Total Backfill Cost \$		Growth Media Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost \$	Total Equipment Cost \$	Total Growth Media Cost \$
1	Reclaim Pond	25,628	D9R	300		85	\$7,715	\$23,187	\$30,902	1,111	740/988G/D8R	548	4	2	\$909	\$2,188	\$3,097
2	Raffinate Pond	25,628	D9R	300		85	\$7,715	\$23,187	\$30,902	1,111	740/988G/D8R	548	4	2	\$909	\$2,188	\$3,097
3	Process Area Stormwater Pond	25,628	D9R	300		85	\$7,715	\$23,187	\$30,902	1,111	740/988G/D8R	548	4	2	\$909	\$2,188	\$3,097
4	Primary Settling Pond	44,669	D9R	178		251	\$22,783	\$68,470	\$91,253						\$0	\$0	\$0
5	Pregnant Solution Pond	10,251	D9R	342		30	\$2,723	\$8,184	\$10,907						\$0	\$0	\$0
6	HLF North Stormwater Pond	10,251	D9R	342		30	\$2,723	\$8,184	\$10,907						\$0	\$0	\$0
7	HLF South Stormwater Pond	25,628	D9R	300		85	\$7,715	\$23,187	\$30,902		740/988G/D8R	560	5	2	\$1,046	\$2,516	\$3,562
	_	167,683				651	\$59,089	\$177,586	\$236,675	4,444				8	\$3,773	\$9,080	\$12,853

Proc	Process Ponds - Revegetation Costs												
	Description (required)	Surface Area acres	Revegetation Labor Cost \$	Revegetation Equipment Cost \$	Revgetation Material Cost \$	Total Revegetation Cost \$							
1	Reclaim Pond	1.40	\$0	\$0	\$0	\$0							
2	Raffinate Pond	1.40	\$0	\$0	\$0	\$0							

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Closure Cost Estimate Process Ponds

Project Name: Rosemont Copper World Conceptual Closure Plan - Reclamation Plan Date of Submittal: July 20, 2022
File Name: Copy of ROSEMONT Copper World SRCE_APP_Revised July 28 2022.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm
Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Process Ponds - Cost Summary										
	Labor	Equipment	Materials	Totals						
Backfilling Costs	\$59,089	\$177,586	N/A	\$236,675						
Growth Media Placement Costs	\$3,773	\$9,080	N/A	\$12,853						
Liner Cutting & Folding Costs	\$21,728	\$8,912	N/A	\$30,640						
Subtotal Earthworks	\$84,590	\$195,578	\$0	\$280,168						
Revegetation Costs	\$0	\$0	\$0	\$0						
TOTALS	\$84,590	\$195,578	\$0	\$280,168						

3	Process Area Stormwater Pond	1.40	\$0	\$0	\$0	\$0
4	Primary Settling Pond	4.60	\$0	\$0	\$0	\$0
5	Pregnant Solution Pond	1.40	\$0	\$0	\$0	\$0
6	HLF North Stormwater Pond	1.40	\$0	\$0	\$0	\$0
7	HLF South Stormwater Pond	1.40	\$0	\$0	\$0	\$0
		13.00	\$0	\$0	\$0	\$0

Closure Cost Estimate Waste Disposal

Project Name: Rosemont Copper World Conceptual Closure Plan - Reclamation Plan

Date of Submittal: July 20, 2022
File Name: Copy of ROSEMONT Copper World SRCE_APP_Revised July 28 2022.xlsm
Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Waste Disposal - Cost Summary				
	Labor	Equipment	Fees	Totals
Solid Waste - On Site	\$0	\$0	N/A	\$0
Solid Waste - Off Site				\$50,235
Hazardous Materials				\$0
Hydrocarbon Contaminated Soils	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$50,235

Color Code Key	
User Input - Direct Input	Direct Input
User Input - Pull Down List	Pull Down Selection
Program Constant (can override)	Alternate Input
Program Calculated Value	Locked Cell - Formula or Reference

Waste	Disposal - User Input - Solid Waste								
						Lanc	lfill (Bulk) Dis	posal	Dumpster
								Number	Months
	Description		Waste	Disposal		Distance	Slope to	of	Dumpster
	(required)	ID Code	Type	Method	Quantity	to Landfill	Landfill	Trucks	Rental
			(select)	(select)	cy	ft	% grade	(user override)	months
1	Solid Waste Removal		Waste Mgmt & Disposal	Dumpster	1,000				12

- Notes:
 1. All Physical parameters must be input even if manual overrides for volume or area are used.
 2. If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet)

Waste	Disposal - User Input - Hazardous Material	ls							
								One Way	
					Vacuum			Travel	One Way
	Description		Waste	Container	Truck	Liquid	Soild	Distance to	Travel Time to
	(required)	ID Code	Type	Type	Size	Quantity	Quantity	Disposal Site	Disposal Site
			(select)	(select)	(select)	gallons	cy	mi	hr

Notes:
1. Use Other Demo & Equip Removal Sheet for tank removal

Waste	Disposal - User Input - Hydrocarbon Conta	Waste Disposal - User Input - Hydrocarbon Contaminated Soils												
						Travel								
						Distance to								
	Description		Waste	Disposal		Offsite								
	(required)	ID Code	Type	Method	Quantity	Disposal								
	1 1 1		(select)	(select)	cy	mi								

1. Use Yards or Landfills Sheets for bioremediation facility reclamation

Waste Disposal - Assumptions & Calculations

Solid Waste Disposal

Off site disposal assumes use of average rolloff dumpster [30 cy (m3), 10 ton (tonne)]

On site disposal assumes use of small loader/fruck fleet for haulage.

Average density for on site disposal = 2,600 lb/cy (1,540 kg/m3)

For on site disposal only 1 truck is required unless total truck hours > 8, only 2 trucks unless total truck hours are > 16

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Page 1 of 2 Waste Disposal

Closure Cost Estimate Waste Disposal

Project Name: Rosemont Copper World Conceptual Closure Plan - Reclamation Plan

Date of Submittal: July 20, 2022
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Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Waste Disposal - Cost Summary				
	Labor	Equipment	Fees	Totals
Solid Waste - On Site	\$0	\$0	N/A	\$0
Solid Waste - Off Site				\$50,235
Hazardous Materials				\$0
Hydrocarbon Contaminated Soils	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$50,235

Hazardous Materials Disposal

Assumes all hazardous materials are known

Enter EITHER solid or liquid quantity each line.

If container type = 55 gallon (200 liter) drum then solid waste hauling costs apply

Average density for solids assumed to be 2,600 lb/cy (1,540 kg/m3)
Vacuum truck sizes: small = 2,200 gal (~8,300 litres), large = 5,000 gal (~19,000 litres)
Vacuum truck on site for 4 hours for each load

Hydrocarbon Contaminated Soils Disposal

Assumes all hazardous materials are known

On site disposal assumes biopad treatment

Exavation productivity =45 cy./hr (35 m3/hr) (Means Heavy Construction, 2006: 02315-424-0360)

Waste	Disposal - Solid Waste Disposal										
	Description (required)	Waste Volume cy	Number of Off Site Dumpster Loads	Landfill Fleet Equipment	Landfill Fleet Productivity LCY/hr	Number of Trucks	Total Fleet Hours	Total Dumpster Cost \$	Total Labor Cost \$	Total Equipment Cost \$	Total Waste Disposal Cost \$
1	Solid Waste Removal	1,000	34					\$50,235	\$0	\$0	\$0
		1,000						\$50,235	\$0	\$0	\$0

Waste I	Disposal - Hazardous Materials Disposal								
		_	T		T				
	Description (required)	Liquid Waste Volume	Solid Waste Volume	Number of Truck Loads	Tons of Waste	Pick-up Fees	Transport Fees	Disposal Fees	Total Hazardous Material Cost
	(roquirou)	gallons	cy	20000	Tons	\$	\$	\$	\$
						\$0	\$0	\$0	\$0

Total Total Total Total	Waste	Disposal - Hydrocarbon Contaminated Soi	ls								
Description Capital Control		Description (required)		Disposal Equipment Fleet	Fleet	Treatment Cost \$	Transport Fees \$	Disposal Fees \$	Labor	Equipment	Total Waste Disposal Cost \$

Project Name: Rosemont Copper World Conceptual Closure Plan - Reclamation Plan
Date of Submittal: July 20, 2022
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Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12.xlsm
Cost Estimate Type: Surety
Cost Basis: Southern Nevada - Adjusted for Arizona

	Labor	Equipment	Lab & Materials	Totals
Revegetation Maintenance	\$24,961	\$8,915	\$70,113	\$103,989
Erosion Maintenance	\$344,998	\$1,034,993	N/A	\$1,379,991
Reclamation Monitoring	\$123,592	\$5,150	N/A	\$128,742
Subtotal Reclamation Monitoring	\$493,551	\$1,049,058	\$70,113	\$1,612,722
Water Quality Monitoring	\$854,825	\$112,476	\$97,697	\$1,064,998
TOTAL MONITORING	\$1,348,376	\$1,161,534	\$167,810	\$2,677,720

Description	Total Revegetation Surface Area (1,2) acres	% Area Requiring Reseeding	Seed Mix (select)	Area Requiring Reseeding acres	Seed \$/acres	Labor \$/acres	Equipment \$/acres	Totals \$
Revegetation Maintenance	1,783	10%	Mix 4	178.3	\$393.25	\$140.00	\$50.00	
Labor Equipment Materials Cost/Acre							Subtotal	\$24,96 \$8,91 \$70,11 \$58 \$103,98
Notes:	1) Surface area is I	NOT the same as	ootprint disturban	ce area typically	used for permitting	ng purposes.		
	Total Volume Growth Media cy	% Volume Requiring Maintenance	Average Growth Media Placement Cost \$/CY	Volume Requiring Replacement cy		Labor (assume: 25%) \$/acres	Equipment (assume: 75%) \$/acres	Total \$
Erosion Maintenance	Volume Growth Media	Requiring	Growth Media Placement Cost	Requiring Replacement		(assume: 25%) \$/acres	(assume: 75%)	\$

Reclamation Monitoria	ng					
Description	Hrs/Day	Days/Year	Number of Years	Rate \$/hr		
Field Work						
Field Geologist/Engineer Range Scientist	8	8	5 5	\$162.04 \$146.94		\$51,853 \$47,021
Reporting						
Field Geologist/Engineer Range Scientist	4	4	5 5	\$162.04 \$146.94	Subtotal	\$12,963 \$11,755 \$123,592
Travel					Gustotui	V 120,002
	Hrs/Trip hr	Trips/Year	Years	Truck Cost \$/hr		
Travel	4	8	5	\$32.19		\$5,150
					Subtotal	\$5,150
					Total Reclamation Monitoring	\$128,742
,		ımes 1 Field Geolo ımes 1 trucks per			ntist per trip, 4 trips per year, 2 days each trip , 4 trips per year	

Water and Rock Sample A	Vater and Rock Sample Analysis														
Description	Samples #	Events/Year	No. Years	First Sample Year closure year (1-100)	No. of Samplers	Days/Event	Hrs/Day	Analysis Cost \$/sample	Supplies \$/sample	Lab Cost	Material Cost	Equipment Cost	Labor Cost	Cost \$	Comments
Water Analysis (Profile I) (1)	9	4	3	1	9	3	10	\$411.00	\$6.51	\$44,388	\$703	\$49,338	\$394,535	\$488,964	

1 of 2

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Monitoring

Closure Cost Estimate Monitoring

Project Name: Rosemont Copper World Conceptual Closure Plan - Reclamation Plan
Date of Submittal: July 20, 2022
File Name: Copy of ROSEMONT Copper World SRCE_APP_Revised July 28 2022.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12.xlsm
Cost Estimate Type: Surety
Cost Basis: Southern Nevada - Adjusted for Arizona

	Labor	Equipment	Lab & Materials	Totals
Revegetation Maintenance	\$24.961	\$8.915	\$70.113	\$103.989
Erosion Maintenance	\$344,998	\$1,034,993	N/A	\$1,379,991
Reclamation Monitoring	\$123,592	\$5,150	N/A	\$128,742
Subtotal Reclamation Monitoring	\$493,551	\$1,049,058	\$70,113	\$1,612,722
Water Quality Monitoring	\$854,825	\$112,476	\$97,697	\$1,064,998
TOTAL MONITORING	\$1,348,376	\$1,161,534	\$167,810	\$2,677,720

Water Analysis (Profile I) (1)	9	2	7	7	9	3	10	\$411.00	\$6.51	\$51,786	\$820	\$57,561	\$460,291	\$570,458	
														\$0	
														\$0	
														\$0	
														\$0	
														\$0	
														\$0	
														\$0	
														\$0	
														\$0	
														\$0	
														\$0	
														\$0	
														\$0	
														\$0	
	•	•		•	•	•		•		\$96,174.00	\$1,523.00	\$106,899.00	\$854,825.40		
					·	·		·				Subtotal San	mpling Costs	\$1,059,421	

Notes: Sampling labor cost = No. Samplers x Years x Events/year x Days/event x Hour/Day x Labor Rate Sampling equipment costs include 1 pickup truck for every two samplers

ump Costs					
Description	No. of units		Years		Cost \$
Pump (purchased)	9	Replacement period (yrs):	5	2788.41	\$5,5
			Subtot	al Field Work	\$5,5
Description	Hrs/Event	Rate \$/hr	Cost \$		
Field Geologist/Engineer					
		ubtotal Reporting			
* *	Sotes: All sampling and i		d under APP p	permit	
* *			d under APP r	permit	
* *			d under APP p	permit	

Closure Cost Estimate Constr. Mgmt

Project Name: Rosemont Copper World Conceptual Closure Plan - Reclamation Plan

Date of Submittal: July 20, 2022

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Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Construction Management & Road Maintenance - Cost Summary							
	Labor	Equipment	Materials	Totals			
Construction Management	\$572,506	\$111,832	N/A	\$684,338			
Construction Support		\$47,791		\$47,791			
Road Maintenance	\$309,982	\$665,614	\$19,879	\$995,475			
TOTAL CONSTRUCTION MANAGEMENT	\$882,488	\$825,237	\$19,879	\$1,727,604			

Construction Management								
Construction Management Staff								
Description	Duration mo.	Hours/ Month hr.	Number of Supervisors	Supervisor Rate \$/hr	Labor Cost \$	Equipment Cost ⁽¹⁾ \$	Totals \$	
Active Reclamation	12	160	2	\$140.32	\$538,829	\$105,254	\$644,083	
Monitoring & Maintenance	60	4	1	\$140.32	\$33,677	\$6,578	\$40,255	
				Total Staff	\$572,506	\$111,832	\$684,338	

Construction Management	Construction Management Support								
Description	Duration mo.	Number of Units	Rental Rate \$/mo	Generator Cost \$/mo	Equipment Cost ⁽¹⁾ \$	Totals \$			
Temporary Office Rental	12	1	\$198	\$2,714	\$34,939	\$34,939			
Temporary Toilets	60	1	\$214		\$12,852	\$12,852			
				Total Support	\$47,791	\$47,791			

Notes: Office rental assumes only 1 generator required for every 4 trailers

Total Construction Management	\$732,129
-------------------------------	-----------

Description	Fleet Size (select)	Number	Duration mo.	Hours/ Month hr.	Labor Cost \$	Equipment Cost \$	Totals \$
Active Reclamation							
Water Truck	Large	1	12	160	\$131,386	\$256,051	\$387,437
Grader	Large	1	12	160	\$173,184	\$400,838	\$574,022
Monitoring & Maintena	ance						
Water Truck					\$0	\$0	\$0
Grader	Medium	1	60	1	\$5,412	\$8,725	\$14,137
	Gallons/	Days/		Cost/			
Description	Day	Month	Duration	Gallon			Totals
			mo.	\$			\$
Water Fees							
Water Fees	100000	22	12	0.00			\$19,879
	•	•	Total Pro	ject Maintenance	\$309,982	\$665,614	\$995,475

Notes: 1) Supervisor equipment = pickup truck

Final reclamation assumed completed in 12 months

Periodic (once per year) road maintenance for 5 years
Water cost assumes \$3/AF supply well cost plus \$243/AF pumping cost = \$0.000753/gal

PROCESS FLUID COST ESTIMATOR RESULTS

NEVADA STANDARDIZED PROCESS FLUIDS COST ESTIMATOR Heap Leach Pad and Tailings Storage Facility INTERIM FLUID MANAGEMENT (IFM) PROCESS FLUID STABILIZATION (PFS) SUMMARY

2021 Cost

Note: Use of this bond cost calculator is not required, but operators using these spreadsheets may realize a quicker preparation time as well as a faster agency approval time due to the standardization of costs and methodologies.

Company Name:	Rosemont Copper Company
Project Name:	Copper World Project
Submittal Date:	
WPCP Number(s):	

	Labor	Equipment	Materials	Total
nterim Fluid Management	\$994,054	\$249,918	\$394,153	\$1,638,124
Process Fluid Stabilization				
Phase I	\$789,552	\$167,147	\$77,947	\$1,034,646
hase II	\$26,341,217	\$5,820,437	\$935,976	\$33,097,631
hase III	\$74,410	\$24,974	\$1,102,644	\$1,202,028
otal PFS (Phases I-III)	\$27,205,179	\$6,012,558	\$2,116,567	\$35,334,304
vaporation	N/A	\$10,617,713	\$1,746,405	\$12,364,118
otal PFS + Evaporation	\$27,205,179	\$16,630,271	\$3,862,972	\$47,698,423
Grand Total = IFM + PFS + Evaporation	\$28,199,233	\$16,880,189	\$4,257,125	\$49,336,547

USER INPUTS

Heap Leach Pad (HLP) and Tailings Storage Facility (TSF) Interim Fluid Management (IFM) Process Fluid Stabilization (PFS)

green cells are for User Inputs on this page yellow cells are from Unit Costs sheet

Company Name:	Rosemont Copper Company
Project Name:	Copper World Project
Facility-1 Name	Heap Leach Facility
Facility-2 Name	Tailings Storage Facility 1
Facility-3 Name	Tailings Storage Facility 2
Facility-4 Name*	
Submittal Date:	
WPCP No.(s)	

^{*} If more than four facilities, enter in separate Process Fluids Cost Estimator.

Additional labor and support equipment may be required for larger sites having multiple facilities separated by considerable distances.

Recirculation				
Pumping systems must be consistent with approved WPCP				
Facility	Facility-1	Facility-2	Facility-3	Facility-4
Total volume recirculated (millions of gallons)	220	0	0	
Operational Pumping Rate (gpm)	2,500	1,100	550	
Static Head (feet) (1)	500	100	500	
Pressure Head (feet) (2)	525	125	525	
Friction Head (feet) (3)	125	25	125	0
Total Head (feet)	1,150	250	1,150	0
Pump Selection	Pump # 1	Pump # 2	Pump#3	Pump # 4
Model Number	HH-225c	HH-150	HH-125c	HH-80c
B.E.P. Flow Rate @ given RPM (gpm) (4)	4,000	2,090	620	410
B.E.P. Head @ given RPM (feet)	260	260	340	320
RPM	1,900	2,000	2,200	2,200
Monthly Cycle (rental) Rate (24/7 operation)	\$ 4,484	\$ 3,364	\$ 2,906	\$ 1,566
Select # of pumps for each model for Facility-1 (5)	2	0	0	
Select # of pumps for each model for Facility-2	0	2	0	
Select # of pumps for each model for Facility-3	0	0	2	
Select # of pumps for each model for Facility-4				

Process Fluid Stabilization					
Time-frames to be determined by HLDE or other					
acceptable method. Provide supporting documentation.					
Facility	Facility-1	Facility-2	Facility-3	Facility-4	SITE
Phase I Duration (months) (6)	6	0	0		6
Phase II Duration (months) (7)	100	360	223		354
Phase III Duration (months)	1	1	1	1	1
ET Cell Conversion Cost*		•			
*Provide supporting documentation for estimated cost.	\$500,000	\$300,000	\$300,000		

Active Evaporation	Ţ				
Facility	Facility-1	Facility-2	Facility-3	Facility-4	SITE
Total volume evaporated (millions of gallons) (8)	295.3	1875.0	223.0		2393.3
Static Head between pond and evaporator location (ft) (9)	500	100	500		
Number of 160 gpm Dual Pac evaporators used (10)	10	30	10		50
Average evaporation efficiency during months of operation	59%	59%	59%		

Sampling				semi-	
Per approved Water Pollution Control Permit(s) (WPCP)	weekly	monthly	quarterly	annually	annually
NDEP Profile I Water - # of samples analyzed:			12		
NDEP Profile II Water - # of samples analyzed:					

IFM Travel		
Select nearest town with hotel (11)	Fallon	
	miles	hours
Road miles from Carson City to hotel	62	1.25
Road miles from hotel to site	50	1.25

read times from floter to site	00
<u>Hazardous Waste Disposal</u>	
Enter total actual annual invoice(s) amount from last year.	\$0
Snow Removal	
Is snow plowing in winter necessary to manage the facility?	No
Site Map	
Is map included showing facilities and monitoring locations?	Yes
Final Plan for Permanent Closure (FPPC)	<u> </u>
Is FPPC on file and acceptable to regulatory agencies?	No
If answer is yes, include copy of the FPPC.	<u>, </u>
Is Project in Clark, Esmeralda, Lincoln, or Nye County?	No
Phase I Site Supervision	
Is Site Supervisor for reclamation present during Phase I?	Yes
If answer is ves, include reference to page in document.	

Notes:

- Recirculation pumps are rented (short time frame). Equipment for evaporation is purchased (longer time frame).

 (1) Static head is the difference in elevation between pumps and discharge point

 (2) Pressure head is the operating pressure necessary for irrigation system in place (emitters, impact sprinklers, wobblers, etc.). For tailings storage facilities the pressure head may be zero.
- (3) Friction head is estimated as 25% of Static Head. If this value is not used,
 - provide calculations for friction head loss (i.e. Hazen-Williams equation and length of pipe).

- (4) B.E.P. = Best Efficiency Point for pump operation at given RPM.
 (5) Use B.E.P. to select pump(s) required to handle operational pumping rate at total head required.
 Add pumps in series to get required head and in parallel to get required flow. Do not have more than two pumps in series.
 (6) Input number of months HLDE or other model shows recirculation is taking place.
- Phase I duration for SITE will be selected from HLP or TSF with longest Phase I duration.
- (7) Input number of months HLDE or other model shows active evaporation is taking place.

- Only include the actual number of months that evaporators are running.

 Phase II duration for SITE will be selected from longest HLP or TSF Phase I + Phase II duration less SITE Phase I duration.

 (8) Include volume of supernatant pool if a tailings storage facility

 (9) Evaporators must have a minimum 500 foot clearance of approved containment for overspray.

 This may require evaporator placement on heap leach pad and additional pumping power to overcome elevation head. Provide site-specific details for placement of evaporators.
- (10) EcoMister Dual-Pac evaporators include 2, 40 hp motor evaporators and 1, 30 hp pump, dual unit pumps 160 gpm aloft.
- (11) IFM travel mileage is from Carson City, Nevada to town with hotel nearest to site.

APPENDIX N.2 ASMI RECLAMATION COSTS

Arizona Mined Land Reclamation Plan

Rosemont Copper World Project

May 5, 2022

(Revision 1 - minor updates to Page 5-5 on 9/7/2022)

Prepared by:

Rosemont Copper Company

and

CDM Smith



Arizona Business Unit 5255 E. Williams Circle, Suite 1065

Tucson, Arizona 85711-7407 tel 520-495-3500 **Hudbayminerals.com**

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Appendices

Appendix A Reclamation Cost Estimates



Table 1 presents the requirements of the A.R.S. Title 27, Chapter 5, § R27-901 et seq., a description of the requirements, and the section within this Mined Land Reclamation Plan (MLRP) where these requirements are addressed.

Table 1 Mined Land Reclamation Plan Requirements

A.R.S. Section	Requirement	Section in Plan
R27-971, B.1.	Names, addresses of owner or operator and regulatory contact	1.1
R27-905	Certificate of Disclosure	1.2
R27-971, B.2.	Statement that owner or operator assumes responsibility for reclamation of surface disturbances	2
R27-971, B.3.	Current ownership and use of land in mining unit	3
R27-971, B.4.	Proposed post mining use of land	4
R27-971, B.5.	Description of mining unit and proposed surface disturbance	5
R27-971, B.6.	Existing topography	6 and Figure 4
R27-971, B.6.	Proposed final topography	6 and Figure 5
R27-971, B.7.	Narrative description of roads	7
R27-971, B.8.	Acreage affected by each type of surface disturbance and map of mining unit area showing each surface disturbance	8 and Table 2
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Section 1

Introduction

1.1 Name, Address of Owner or Operator and Regulatory Contact - § R27-971, B.1

Applicant

Rosemont Copper Company 5255 East Williams Circle, Suite 1065 Tucson, Arizona 85711 (520) 495-3500

Owner/Operator

Rosemont Copper Company 5255 East Williams Circle, Suite 1065 Tucson, Arizona 85711 (520) 495-3500

Regulatory Contact

Mr. David Krizek Environmental Manager 5255 East Williams Circle, Suite 1065 Tucson, Arizona 85711 (520) 495-3527

1.2 Certificate of Disclosure of Violations - § R27-905

Rosemont Copper Company is not subject to the Certification of Disclosure requirements of A.R.S. Title 27, Chapter 5, § R27-905 because the Rosemont Copper Company is neither:

- 1. A person who is engaged in an activity subject to regulation under this chapter and who has been convicted of a felony involving laws related to mined land reclamation within the five-year period immediately preceding execution of the certificate.
- 2. A person who is engaged in an activity subject to regulation under this chapter and who is or has been subject in any civil proceeding to an injunction, decree, judgment or permanent order of any state or federal court within the five-year period immediately preceding the execution of the certificate that involved a violation of laws of that jurisdiction relating to mined land reclamation.



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Section 2

Regulatory Responsibility Statement - § R27-971, B.2

Rosemont Copper Company assumes responsibility for reclamation of surface disturbances that are attributable to the Rosemont Copper World Project (Project) consistent with Mining Unit Reclamation Plan elements identified in Arizona Revised Statutes §§ 27-901-997 and Arizona Administrative Code R11-2-201 through R11-2-822.

Name: Francisco	Javier	Del Rio		
Signature:	1-		×	
Title: Vice Presid	ent Sout	th America	4	USA
05/05/	2022			

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Current Land Ownership and Use of Land - § R27-971, B.3

The core of the Rosemont Copper Company land holdings in the general area of Rosemont's Copper World Project (Project) consists of 132 patented lode claims that total an area of nearly 2,004 acres. Additionally, there are also about 1,877 acres of fee (private) land, adjacent to, and generally south and west of the patented mining claims, that are part of the Project. The area covered by the patented claims and fee lands in the main operational Project area therefore totals approximately 3,881 acres. Rosemont also owns additional fee lands in the general Project area that are not part of the Project described herein (see attached **Figures 1 and 2**).

Rosemont has additional land holdings that are distal from the main Project area for infrastructure purposes such as well fields, a pump station, and electric power distribution. These lands, termed Sanrita West and Sanrita South (see attached **Figures 1 and 2**).

All private/patented land described above are held by Rosemont Copper Company, a subsidiary of Hudbay Minerals, Inc. (Hudbay).

Past and current land use reflects a mixture of mining activities, ranching, wildlife habitat, and limited recreational use. Access to most of the patented land is currently restricted to the public via gated roads.

The Rosemont property is also part of an existing Rosemont Ranch, a ranching facility with over 35,000 acres of grazing lands and leases.



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Proposed Post-Mining Use of Land - § R27-971, B.4

The post-mining land use for the areas covered in this MLRP will include on-going ranching and wildlife habitat. Most of the post-mining reclaimed facilities will be ideal for grazing once vegetation is established. Public access restrictions to Rosemont's property are anticipated to remain in place post-mining.



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Description of the Mining Unit and Proposed Surface Disturbance Created - § R27-971, B.5

In general, the Rosemont Copper World Project will include the following facilities:

- Open pit mines
- Waste Rock Storage Area
- Heap Leach Pad (HLP) and associated solution management facilities
- Tailings Storage Facilities (TSF) and associated dewatering facilities
- Processing facilities (grinding, milling, concentrate leach, solvent extraction, electrowinning)
- Mine Infrastructure Area (MIA) (truck maintenance, etc.)
- Ancillary facilities such as offices, warehouses, and storage yards
- Utilities (water and power)
- Haul Roads and miscellaneous plant site/service roads

The locations of the main Project facilities are illustrated on **Figures 2 through 5.** Details of the Plant Site are shown on **Figure 6**.

The main mine facilities and operations will be located within the following sections:

- T18S R15E: Sections 10, 13, 14, 15, 22, 23, 24, 25, 27 and 36
- T18S R16E: Sections 19, 30 and 31

Power and water utilities are located along a linear corridor shown on **Figures 1 and 2** within the following sections:

- T18S R15E, Sections 7, 17, 18, 20 and 21
- T18S, R14E, Sections 1, 2 and 12
- T17E, R14E, Sections 17. 18, 19, 20, 29, 32, 33, 34 and 35

Right-of-Ways (ROWs) have been established through State land with the Arizona State Land Department (ASLD) for these power and water utilities. Additionally, a license agreement has been established with the Town of Sahuarita (TOS) related to water utilities.



The production wells are located on private Rosemont land within the following sections and on the following parcels:

- Sanrita South: T17S, R14E, Section 29 (parcel 303-54-005B)
- Sanrita West: T17S, R14E, Section 17 (parcel 303-60-1410)

The Sanrita South parcel will also have a switchyard and is the start of the electrical transmission line through the State land ROW to the Rosemont Copper World Project property.

As a note, the disturbance areas attributed to the Utility Corridor and associated facilities on Sanrita West and Sanrita South is approximately 73 acres.

Open Pit Mines

The mine will consist of six open pit areas, Peach, Elgin, Heavy Weight, Copper World, Broadtop Butte, and Rosemont Pits for a total of approximately 858.7 million short tons of material mined. This equates to approximately 409.5 million cubic yards using an average density factor of about 155 pounds per cubic foot (lbs/cu ft).

The following total tonnages are anticipated from each of the pits:

- Peach: 31.6 million short tons (14.8 million cubic yards)
- Elgin: 16.9 million short tons (8.1 million cubic yards)
- Heavy Weight: 25.5 million short tons (12.2 million cubic yards)
- Copper World: 40.0 million short tons (19.1 million cubic yards)
- Broadtop Butte: 131.4 million short tons (63.5 million cubic yards)
- Rosemont: 613.3 million short tons (291.8 million cubic yards)

The Peach Pit will be constructed with 50-foot benches and overall pit slope angles of about 45 degrees. The pit bottom will be at an elevation of 3,950 feet above mean sea level (ft amsl). Pit crest elevations will range from 4,160 ft amsl to 4,680 ft amsl, creating a maximum depth of about 730 feet. The final pit will be irregular in shape with an overall length of about 2,900 feet and a width of about 1,500 feet.

The Elgin Pit will be constructed with 50-foot benches and overall pit slope angles of about 45 degrees. The pit bottom will be at an elevation of 4,050 ft amsl. Pit crest elevations will range from 4,250 ft amsl to 4,480 ft amsl, creating a maximum depth of about 430 feet. The final pit will be irregular in shape with an overall length of about 1,800 feet and a width of about 1,000 feet.

The Heavy Weight Pit will be constructed with 50-foot benches and overall pit slope angles of about 45 degrees. The pit bottom will be at an elevation of 4,150 ft amsl. Pit crest elevations will range from 4,500 ft amsl to 4,897 ft amsl, creating a maximum depth of about 747 feet. The final pit will be irregular in shape with an overall length of about 1,600 feet and a width of about 1,400 feet.



The Copper World Pit will be constructed with 50-foot benches and overall pit slope angles of about 45 degrees. The pit bottom will be at an elevation of 4,450 ft amsl. Pit crest elevations will range from 4,805 ft amsl to 5,180 ft amsl, creating a maximum depth of about 730 feet. The final pit will be irregular in shape with an overall length of about 2,700 feet and a width of about 1,000 feet.

The Broadtop Butte Pit will be constructed with 50-foot benches and overall pit slope angles of about 45 degrees. The pit bottom will be at an elevation of 5,000 ft amsl. Pit crest elevations will range from 5,400 ft amsl to 6,000 ft amsl, creating a maximum depth of 1,000 feet. The final pit will be irregular in shape with an overall length of about 5,500 feet and a width of about 2,000 feet.

The Rosemont Pit will be constructed with 50-foot and 100-foot benches and overall pit slope angles between 33 to 50 degrees. The pit bottom will be at an elevation of 3,850 ft amsl. Pit crest elevations will range from 5,100 ft amsl to 6,150 ft amsl, creating a maximum depth of about 2,300 feet. The final pit will be irregular in shape with an overall length of about 5,500 feet and a width of about 4,500 feet.

Mining operations will use typical large-scale equipment including mining shovels, haul trucks, and rotary blast hole drills.

At the cessation of operations, the Heavy Weight, Copper World, and Broadtop Butte pits will be backfilled with waste rock and reclaimed as part of the waste rock facility (WRF). The other pits will remain open (i.e., unreclaimed). These include the Peach, Elgin and Rosemont pits. A pit lake is anticipated to form in the Rosemont Pit as well as in the Peach and Elgin pits.

Waste Rock Facility Area

Waste rock will be placed in the main Waste Rock Facility (WRF) as shown on **Figures 3 through 5**. Additionally, waste rock will also be placed under the HLP as a base for the containment liner, a base for the plant site area/heap leach pond area, and other as needed platforms. Waste rock will also be used to construct haul roads or other access roads.

Waste rock placement is also planned along the eastern edge of the Rosemont Pit. This portion of the WRF is not indicated on the figures as it will be removed during operations as the pit is expanded.

The placement of waste rock will follow a waste rock management plan developed for the Rosemont Copper World Project as part an APP Program submission to ADEQ. The plan defines placement criteria for potentially acid generating (PAG) and acid-generating (AG) materials in order to prevent the formation of acid mine drainage. As a note, the majority of the materials mined from the pits is non-acid generating (NAG) material.

Waste rock mined from all six (6) open pits totals about 477 million tons. However, the main WRF can accommodate up to 528 million tons (313.25 million cubic yards) based on a density factor of about 125 lbs/cu ft. As noted, the Heavy Weight, Copper World, and Broadtop Butte pits will be filled with waste rock during operations. The following waste rock tonnages are attributable to each of the following pits:

Peach: 1.42 million short tons of waste rock



- Elgin: 3.04 million short tons of waste rock
- Heavy Weight: 6.09 million short tons of waste rock
- Copper World: 13.30 million short tons waste rock
- Broadtop Butte: 43.10 million short tons waste rock
- Rosemont: 411.00 million short tons waste rock

Notwithstanding other areas where waste rock is placed, the main WRF covers approximately 725 acres from the Heavy Weight Pit area to the southern end of the Broadtop Butte area. The main WRF is divided into two (2) portions: the west portion and the east portion.

Waste rock in the main WRF is placed in 100-foot lifts. The overall slope angle will be 2.2: 1 (H:V). A 24-foot-wide bench will be placed every 100-foot lift. The inner bench angle will be about 1.4:1 (H:V). The top elevation of the west portion of the WRF will range from 5,300 ft amsl to 5,400 ft amsl with an overall maximum slope height will be about 900 feet. The top elevation of the east portion of the WRF will range from 5,600 ft amsl to 5,700 ft amsl with an overall maximum slope height will be about 400 feet.

Although the WRF is classified as a potentially discharging facility under ADEQ's APP Program, reclamation costs for the final WRF surface were attributable to ASMI in this MLRP.

Unlike the heap leach and tailings facilities, a growth media (soil) cover will not be placed on the final surface of the WRF. The surface will consist of coarse waste rock that is classified as NAG. Minor regrading of the top surfaces will occur to promote stormwater drainage off the facility. The surface of the WRF will be seeded with a native seed mix.

Heap Leach Pad and Associated Ponds

The Rosemont Copper World Project Heap Leach Facility (HLF) includes a Heap Leach Pad (HLP) and associated ponds. The HLP is located immediately south of the process plant area and will contain approximately 104 million tons of oxide ore material, or 62 million cubic yards at a density factor of about 125 lbs/cu ft.

Soil within the HLP footprint will be salvaged and stockpiled as a first step. Non-acid generating (NAG) waste rock will then initially be placed within the footprint of the HLP. The HLP liner containment system will be constructed on top of the waste rock fill. The pad area covers approximately 336 acres. Lined ponds associated with the Heap Leach Facility (HLF) cover approximately 10.4 acres and include a Pregnant Leach Solution (PLS) Pond, a Raffinate Pond, and two (2) stormwater ponds.

The maximum slope height of the heap will be about 430 feet, with a top elevation of approximately 4,830 ft and a toe elevation of 4,240 ft amsl. The heap will be constructed with 30-foot-wide benches for every 30-foot lift of material. The overall slope angle will be approximately 2.3:1 (H:V). Inner bench slopes angles will be about 1.4:1 (H:V). Both crushed and run-of-mine (ROM) oxide ore material may be placed on the HLP.



The heap and associated lined ponds are classified as discharging facilities and are therefore regulated under AQEQ's APP Program. Discharging facilities have the potential to affect groundwater resources. As such, closure activities associated with the elimination of discharge at closure from the heap leach and ponds are attributable to ADEQ and covered under ADEQ's APP Program. This includes the placement of a growth media (soil) cover on the heap surface. Although revegetation also contributes to discharge reduction through decreased infiltration of meteoric water into the heap, this cost component was included in this MLRP as well as the pond areas. Post-closure regrading of the heap surface (top and side slopes) is includes under ADEQ's APP Program.

Details on the closure costs for the HLF are part of an APP Program submission to ADEQ for the Rosemont Copper World Project.

Tailings Storage Facilities

Two (2) tailings storage facilities will be constructed as part of the Rosemont Copper World Project: TSF-1 and TSF-2. Each tailings facility is a conventional impoundment, and each will have a raised embankment. Soil within the TSFs will be salvaged and stockpiled as a first step. Following constructed of a starter embankment, the embankment slopes of the tailings facilities will generally be constructed with cyclone tailings.

TSF-1 is located north of the plant site area and will cover approximately 946 acres and accommodate about 231 million tons of tailings material (or 137.05 million cubic yards based on a density factor of 90 lbs/cu ft). TSF-2 is located south of the plant site area and will cover approximately 307 acres and accommodate about 47 million tons of tailings material (or 27.88 million cubic yards).

The maximum height of TSF-1 will be about 267 feet, with a top elevation of approximately 4,197 ft amsl. The TSF-1 embankment will be constructed on a 3:1 (H:V) continuous slope.

The maximum height of TSF-2 will be about 255 feet, with a top elevation of approximately 4,600 ft amsl. The TSF-1 embankment will be constructed on a 3:1 (H:V) continuous slope.

An underdrain collection system will be constructed at the bottom of the TSFs to capture seepage. Seepage water will drain to seepage collection trenches and be pumped to a Primary Settling Pond (also termed an Auxiliary Tailings Facility) for transfer back into the process circuit during operations. Seepage interceptor wells may also be installed.

The TSFs and associated pond/seepage collection systems are classified as potentially discharging facilities and are therefore regulated under AQEQ's APP Program. Discharging facilities have the potential to affect groundwater resources. As such, closure activities associated with the elimination of discharge at closure from the TSFs and ponds are attributable to ADEQ and covered under ADEQ's APP Program. This includes placement of a growth media (soil) cover. Although revegetation also contributes to discharge reduction through decreased infiltration of meteoric water into the tailings, this cost component was included in this MLRP.



Details on the closure costs for the TSFs are part of an APP Program submission to ADEQ for the Rosemont Copper World Project.

Processing and Ancillary Facilities

Soil within the plant site and ancillary facility areas will be salvaged and stockpiled as a first step. The Project plant facilities will process both sulfide and oxide copper ore. Process operations will involve crushing, grinding, flotation, molybdenum separation, concentrate dewatering, and leaching. The plant facilities are shown on **Figure 6** and are separated into three (3) main processes: Sulfide Mill, Oxide Leach, and a Concentrate Leach.

In the Sulfide Mill, the ore will be processed through a traditional crushing and concentrating circuit. Copper concentrate from this process will go either to 1) a Concentrate Leach circuit for further processing to produce a pregnant leach solution (PLS) or 2) a concentrate loadout facility in preparation for shipment offsite.

Sulfide ore is crushed in a primary crusher and is then conveyed to a coarse ore stockpile where material is drawn from the bottom of the stockpile using feeders. These feeders feed the milling circuit. The milling process includes a typical SAG-Ball Mill-Pebble Crushing circuit. The flotation circuit includes both rougher and cleaner froth flotation process.

In the flotation process, a copper-molybdenum separation step generates the final copper and molybdenum concentrate products. The copper-molybdenum concentrate is fed to a molybdenum rougher conditioning tank and molybdenum rougher/scavenger flotation cell circuit. Molybdenum concentrate product from the final cleaner stage of the separation circuit, and copper concentrate from the molybdenum rougher tails, are thickened and press filtered and dried. Molybdenum concentrate is loaded into bags for shipment offsite. Copper concentrate is either sent to the concentrate loadout facility in preparation for shipment offsite or sent to the Concentrate Leach circuit.

Oxide ore will also be processed at the site. Both ROM and crushed and agglomerated oxide ore may be placed on the HLP and leached. PLS from this leaching process is pumped to the SX-EW circuit for processing into copper cathodes. The crushing circuit for the oxide ore consists of a primary crusher that feeds a coarse ore stockpile. Material from the stockpile is drawn from the bottom of the stockpile using feeders. Crushed oxide ore material is then conveyed to an Agglomerator and then to the HLP via conveyors. Oversized material is screened and sent to a secondary crusher for further processing prior to reaching the Agglomerator. The Agglomerator mixes the crushed ore with acid prior to placement on the heap. Materials placed on the heap are then leached with a weak sulfuric acid solution. PLS is collected in a PLS Pond and pumped to the SX-EW circuit for processing where copper cathode is produced.

The Concentrate Leach process noted above includes an acid leach facility, sulfur recovery circuit, precious metals recovery circuit and a sulfur burner for acid capture. Sulfuric acid produced from this process is used for leaching oxide ore on the heap. Pregnant leach solution produced by the concentrate leach process will go to the SX-EW plant for plating.

Flotation tailings from the copper rougher and copper cleaner scavenger circuits are thickened and pumped to the TSFs. Tailings will be pumped as slurry and conveyed to the TSFs in 24-inch (or

CDM Smith less) diameter pipelines. The pipeline from the plant site to TSF-1 will be underground and will be constructed to avoid surface disturbance to BLM land (see **Figure 3**). The reclaim water return from tailings is also buried alongside of the tailings pipeline.

Reagents are stored, mixed and distributed from a central reagent area. The frother, collector, and depressant are pumped from the reagent area to head tanks in the flotation section.

A mine infrastructure area (MIA) is located in the general vicinity of the primary crushers. The MIA also has a maintenance shop, fuel station, and vehicle wash station.

General administration office buildings are located west of the processing plant facilities.

Utilities

The utilities associated with the Project include a freshwater pipeline (including well fields and pump stations), a utility maintenance road, and a high voltage transmission line. These will be located within a utility corridor and terminate at a switchyard/substation located west of the plant site as shown on **Figure 6**. Power will be distributed to the plant and other service areas from the substation.

A fresh-water delivery system (FWDS) waterline begins at a pump station on Rosemont's Sanrita South property and terminates at a second pump station on Rosemont's property located southwest of the plant site. Distribution water will then be taken from the pump station into a freshwater tank and distributed as needed to site facilities.

Production water wells are located on Rosemont's Sanrita South and Sanrita West properties (see **Figure 2**). Well water distribution system (WWDS) piping from both well fields feeds water to Pump Station No. 1 located at Sanrita South.

The high voltage transmission line is located within a right-of-way (ROW) on State land. The transmission line starts at a switchyard located at Sanrita South and terminates at the plant area. Fresh-water distribution lines (includes well water distribution) are also located within the State land ROW. Part of the WWDS is also located within a ROW located in the Town of Sahuarita (TOS). Costs associated with the removal of facilities and reclamation of disturbances within these ROWs are included in this MLRP. The production water wells are assumed capped at mine closure. Disturbances associated with the Utility Corridor are estimated at 73 acres.



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Existing and Proposed Final Topography § R27-971, b.6

Rosemont owns property located in the northern portion of the Santa Rita Mountains in the Basin and Range physiologic province of the southwestern United States (**Figure 1**). The province is characterized by high mountain ranges adjacent to alluvial filled basins. The Basin and Range province has been further divided into the Mexican Highlands and Sonoran Desert sub provinces. The Santa Rita Mountains form the boundary between the Mexican Highlands of southeastern Arizona and the Sonoran Desert sub-province to the west.

Rosemont's property occupies relatively flat to mountainous topography in the northeastern and northwestern flanks of the Santa Rita Mountains. The Santa Rita Mountains separate the Cienega Basin to the east from the Santa Cruz Basin to the west. General property elevations range from about 3,600 feet amsl to over 6,300 feet amsl. The facility elevations associated with the Rosemont Copper World Project range from about 3,615 feet amsl to about 6,150 feet amsl.

The Project will, where possible, place materials in their final configuration throughout the life of the Project. As outer facility slopes are constructed during the life of mine, the slopes will be constructed at final reclamation angles and so that regrading of these slopes will not be required at Project closure. Existing topography is shown on **Figure 4.** Proposed final topography is shown on **Figure 5**. The exception is the heap leach pad. Post-closure regrading of the slopes is anticipated. These regrading costs are part of the APP Program.

Vegetation

The Project area covers three main vegetation communities. This includes the Desert (Scrub) Grasslands Community, the Desert and Semi-Desert Grasslands Community, and the Oak, Juniper, and Pinyon Community. Additionally, the utilities are mainly within the Mixed Palo Verde-Cacti Community along the utility corridor.

Existing vegetation along most of the utility corridor tends to be sparse, with species of Cholla (*Cylindropuntia spp.*), Prickly Pear (*Opuntia Spp.*), and other cacti being common at lower elevations. Saguaro (*Carnegiea Gigantea*) are present but not common. Invasive (introduced or non-native) plants occur in varying density along the utility corridor and include Lehmann Lovegrass (*Eragrostis Lehmanniana*), Buffelgrass (*Pennisetum Ciliare*) and Snakeweed (*Gutierrezia spp.*).

As the elevation increases in the Project area, vegetation density also increases and transitions into semi-desert grassland that supports abundant Catclaw Acacia (Acacia Greggii) and Mimosa (Mimosa Aculeaticarpa), Ocotillo (Fouquieria Splendens), and Yucca (Yucca Spp.). Tree species are mostly limited to Littleleaf Palo Verde (Parkinsonia Microphyllum) and low-stature Velvet Mesquite (Prosopis Velutina), both of which are more abundant along the Xeric Desert washes. The mesquite trees do not typically grow large due the lack of rainfall.

The grassland communities gradually transition into the Encinal Oak community near the crest of the Santa Rita Mountains east of the Copper World Pit area. Multiple species of Oak (e.g.,



Quercus Emoryi), Juniper (*Juniperus Spp.*) and other woody shrubs typical of the Encinal Oak community (e.g., *Vauquelinia Californica*) can be found in these higher elevation areas, with denser concentrations occurring along drainages and on northern exposures.



Narrative Description of Proposed Roads § R27-971, B.7

Access to the Rosemont Copper World Project will be via Santa Rita Road as shown on **Figures 1 and 2**. Both the main Project facilities and the well field at Sanrita West and Sanrita South are accessed along this existing road.

Access to the plant site and majority of the Project facilities will be to the east of Santa Rita Road as shown on **Figure 2**. This includes access to the WRF, TSF-2, HLP, and open pit areas. Miscellaneous laydown yards, field offices, and a process water pond (Primary Settling Pond) are located to the west of Santa Rita Road. Santa Rita Road will require relocation in the TSF-1 area. TSF-1 will be located west of the relocated roadway.

Service roads within the plant site area will consist of two (2) 14-foot-wide travel lanes. These will be gravel roads with dust suppressant/binder to control dust. A guard shack will be located at the entrance to the plant site area immediately following the entrance off Santa Rita Road. Approximately 16,000-feet of service roads are located with the plant site area (see **Figure 6**). The reclamation of these service roads is included in the overall plant site reclamation acreage.

A utility maintenance road will be built along the utility corridor in the State land ROW and will be used to access the waterline and powerline as needed. This road can be accessed from Santa Rita Road at select locations and through the Sanrita South property. Reclamation of this maintenance road is included in the overall utility corridor reclamation acreage of 73 acres.

Service roads in the plant site area will also access the Mine Infrastructure Area (MIA) where haul trucks are serviced, etc., and where the primary crushers are located. Mine haul truck roads will be constructed past the MIA to access the heap leach, open pits, and WRF, etc. Haul roads will generally be 114-feet wide, inclusive of safety berms, and will support the traffic of the planned 250-ton off-highway mine haulage trucks. These haul roads are not show on the figures.

Although the haul roads are generally coincident with other facilities, such as the WRF, reclamation of the haul roads was considered a separate item in this MLRP. In order to not double count disturbance acreages, the disturbance area attributed to haul roads was assumed to be in the "other" disturbed areas. The haul road disturbance area was therefore subtracted from that total.

Various other access and maintenance roads will be constructed as needed to support the Project. These roads are not called out separately but are included in other categories such as "yards" or "other disturbed areas". Reclamation of these roads would include light regrading, scarifying and seeding. These similar reclamation activities would be applied to the "yard" areas or to the "other" disturbed areas.

As noted, these "other" disturbed areas comprise the remaining private land areas within the Project boundaries that are not accounted for in other facilities.



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Acreage Affected by Each Type of Surface Disturbance with Map § R27-971, B.8

The land position of the Project is sufficient to allow mining of the open pits, processing of ore, storage of tailings, storage of waste rock, and operation of milling and flotation equipment, concentrate leach, and heap leaching operations. The Project encompasses the approximate disturbance areas presented in **Table 2**.

Table 2 depicts the acreages that will be disturbed as part of the Project. A total disturbance of 3,954 acres of land is assumed and includes all the land within the Rosemont private land boundaries (patented and fee) that is associated with the Main Project area (3,881 acres) plus 73 acres associated with the Utility Corridor. At final closure there will be approximately 567 acres of un-reclaimed portions of the open pits leaving a total of 3,387 acres to be reclaimed.

For the purposes of this MLRP, it is assumed that all areas located within the Project's main private land boundary will be disturbed, i.e., includes areas outside of designated facility footprints. Perimeter access and other maintenance roads, including monitoring stations, etc., may be placed in these areas.

Table 2 Disturbance Acreages

Disturbance Area	Disturbed Acres
Open Pits (excludes pits backfilled with waste rock)	567
Waste Rock Facility (main storage area)	725
Tailings Storage Facilities (TFS-1 and TSF-2)	1,253
Heap Leach Pad	336
Haul Roads (outside other disturbed areas)	58
Crushing, Processing and Support Facility Area (main plant site)	103
Other plant site facilities (includes stockpile areas	70
Yards and Storage areas	77
Stormwater Controls	19
Miscellaneous Buffer and Disturbed Areas	673
Sub-Total Disturbance (main Project area)	3,881
Utility Corridor	73
Total Disturbance	3,954

Note: The total of pit disturbance areas prior to backfilling is about $831\ acres.$

Three (3) of the open pits will be backfilled with waste rock during operations: Heavy Weight, Copper World, and Broadtop Butte. Three (3) of the pits will remain open at closure and unreclaimed: Peach, Elgin, and Rosemont pits. Therefore, 3,387 acres will be reclaimed at closure (3,984 – 567).

A portion of the Copper World Project area (TSF-1) contains an area where the federally listed endangered Pima pineapple cactus has been identified. Transplanting of the cactus will occur



on other portions of Rosemont's private land. The Sonoran Desert Tortoise may also be encountered with in these same areas. Pre-disturbance surveys will be conducted, and tortoises relocated, per approved protocols. With the exception of TSF-1, the remainder of the Project lies within an area currently designated as jaguar critical habitat. No jaguars have been detected in the Santa Rita Mountains since 2015.

Additionally, historic mine openings located within facility footprints would be surveyed for bat species prior to land disturbance and bat exclusion activities would be implemented at appropriate openings to minimize impacts to bats. Both the translocation of plants and the exclusion of bats from historic mine openings would follow established protocols. No fish habitats will be affected.



Proposed Reclamation Measures to Achieve Post Mining Land Use § R27-971, B.9

9.1 Measures that will be taken to Restrict Public Access to the Project § R27-971, B.9a

In order for the Rosemont operations to run safely and efficiently, it is important that the site be secure. Theft, vandalism, protestors, and illegal activity could potentially have a negative effect on worker safety, the environment, and operating efficiency. Therefore, Rosemont will be responsible for controlling access to the site with fencing, security patrols, and by limiting locations for officially entering and exiting the property.

Fencing will be built to encompass all of the primary mining and processing operations and facilities. Fencing will provide a zone restricted from public access and will also provide locations for environmental compliance monitoring. Signage on the fence will state that entrance into the Rosemont Copper World Project area is prohibited. A gatehouse will be located at the entrance to the plant site where the access road off of the existing Santa Rita Road intersects the fence. Six (6) foot high chain link fencing is planned to encompass the mine operational areas, including the open pits, tailings and waste rock areas.

As needed fencing will also be installed along the Utility Corridor. Fencing installed for this part of the Project will be barbed wire.

Fencing for post-closure safety will be coordinated with applicable agencies including the Mine Safety and Health Administration (MSHA) and the Arizona State Mine Inspector (ASMI). It will be the responsibility of Rosemont to maintain any of these safety measures. The fence(s) may be removed at some time in the post-closure period after considering grazing and safety needs. However, for the purposes of this MLRP it is assumed that all fencing will remain intact post-operations.

In addition to protecting the site from potential vandalism or theft, it is also important to protect the public from interfacing with mine operations and to prevent potential injury. Hazards of a typical mining operation include, but are not limited to, the following: traumatic injury or death from large equipment, entanglement in machinery, driving over steep embankments, slipping, or falling on uneven ground or slippery surfaces, encountering high-voltage electricity, blasting with potential for flyrock, exposure to chemicals or reagents while not wearing proper personal protective equipment, and exposure to loud noises while not wearing hearing protection. Employees working at the site are required to receive specific training in accordance with MSHA covers various aspects of site safety, whereas recreationists will likely have no training and may not recognize the hazards. Therefore, it is imperative to control access and to enforce trespassing rules. The same fencing, patrols and signage discussed above will serve to warn recreationists and others who may be in an area of potential danger. In addition, employees will be trained to be aware of trespassers in the course of their normal duties and report any suspicious activity.



The facilities will be designed to minimize the need for visitors or vendors to drive or walk into hazardous areas. Supply route drivers will receive site orientation training and will be familiarized with their specific loading/unloading locations and procedures.

9.2 Measures that will be taken to Address Erosion Control and Stability § R27-971, B.9b

During operations, erosion control will be addressed by operational control of stormwater. Post-mining reclamation will include either a coarse waste rock cover or a soil cover. All disturbed surfaces will be seeded and as needed stormwater controls installed. Geotechnical design will be ongoing during the mine planning process to confirm waste rock, heap and tailings outer slopes are stable, including pit slopes.

Foundation conditions underneath the waste rock, heap, and tailings outer slope areas will initially be inspected for the presence of unsuitable materials. These materials will be removed and placed to the interior of the facility areas or other appropriate areas as needed. Outer slopes are designed to be at or above recommended safety factors as provided in the Arizona Mining BADCT Guidance Manual (ADEQ 2004).

Waste rock will generally be placed to achieve an approximate overall slope of 2.2:1 (H:V). The overall outer slopes of the tailings storage facilities will be about 3:1 (H:V) and the overall heap leach slopes about 2.3:1 (H:V). Final slope configurations may be modified as part of operations. Geotechnical monitoring of facility slopes will occur during operations, including pit slope monitoring.

Operational Stormwater Controls

During the operational phase, the open pits and plant areas will be designed as a closed system with all precipitation and local runoff collected and used in the process. This will also be the case for the tailings and heap leach facilities.

As practicable, non-contact stormwater will be diverted around or through the facilities and to downgradient drainages. Stormwater that contacts those areas of the WRF that are constructed with NAG materials can also be routed offsite.

Diversion channels and other appropriate best management practices will be implemented as needed to direct stormwater and control erosion. Channel outlets will be armored to prevent erosion and sediment control structures (sediment basins) will be installed as needed to reduce the total suspended solids load to downgradient drainages. Sediment basins will be located and sized based on topography, available space, and the anticipated sediment generating capacity of the contributing basin. These unlined structures will typically be sized to be no more than 6 feet deep and will be constructed out of inert rockfill. The basins will be temporary structures that will collect stormwater flows, settle velocities so that the heavier wash load falls out, and allow water to slowly seep through the rockfill.

Stormwater and erosion controls associated with the closure of the HLF and TSFs are included in the estimate developed for an aquifer protection permit (APP) program (APP Program) submission to the Arizona Department of Environmental Quality (ADEQ) for the Rosemont Copper World Project.



Pre- and Post-Mining Temporary Sediment and Erosion Controls

Temporary erosion and sediment controls, including sediment basins, will be installed to reduce sediment loading in stormwater during the pre-mining construction of the ancillary facilities and pre-stripping of the facility areas, etc. Stormwater controls would also follow the Stormwater Pollution Prevention Plan (SWPPP) developed for the Project. Temporary Best Management Practices (BMPs) will be also installed to control erosion and sediment during closure demolition and reclamation activities.

Final reclamation of the facilities will result in stable conditions with regards to erosion. Stormwater channels will be rock lined and will be designed to handle specific storm events. Erosion protection will be added to stormwater channel outfalls. Outfalls will generally also include sediment basins. Topographic contour grading will be conducted as needed to establish suitable reclaimed facilities to route stormwater off the facilities. Inlets to stormwater channels or culverts will be designed to minimize the potential for blockage or restricted drainage.

At the end of the Project's mine life, all operational facilities not required for closure applications will be removed, the areas regraded, capped with growth media (as appropriate for the facility type), and seeded. Some sediment basins may be left in place, or new basins established, to control the sediment load to downgradient drainages. Stormwater routed off reclaimed facilities, such as the tailings and heap leach facilities, the waste rock facility, or from undisturbed upgradient areas, will be routed to existing downgradient drainages.

As noted, stormwater and erosion controls associated with the closure of the HLF and TSFs are included in the estimate developed for an APP Program Submission to ADEQ for the Rosemont Copper World Project

Measures taken to Preserve and Conserve Soil

Suitable cover soil materials (growth media) will be salvaged and used as cover during reclamation of the tailings and heap leach facilities. Waste rock stored in the WRF will also be used as needed during reclamation as a non-erosive rock cover. Additionally, the WRF will not be covered with growth media. Both soil and waste rock covered areas will be seeded with a native seed mix.

9.3 Measures to Address Revegetation, Conservation, and the Care and Monitoring of Revegetated Areas § R27-971, B.9c

The goal of the Project revegetation program is to meet state of Arizona requirements by establishing native, diverse and productive plant communities capable of stabilizing the soil against wind and water erosion and supporting the post-mining land uses of ranching and wildlife habitat. Most of the reclaimed landscape will be suitable for grazing once vegetation is established.

Based on the Arizona Department of Transportation Final Stabilization Standards, Rosemont is proposing that the vegetation cover required for final stabilization to be complete is 70% of the existing native vegetation coverage that is representative of the local area. This would be applicable to the top and slope areas of reclaimed, heap leach and tailings facilities and the reclaimed plant site area. Some areas, such as for the WRF, will have a coarse waste rock cover to resist erosion and therefore may demonstrate less than the 70% vegetation cover target.



9.4 Measures That Will Be Taken to Encourage Fish and Wildlife Post-Mining Land Use and Their Compatibility with Fish and Wildlife Habitat on Adjacent Lands § R27-971, B.9d

Wildlife habitat is a defined post-mining land use. Rosemont is planning reclamation of the facility to establish wildlife habitat. Species selected for use in the seed mix(s) must be native and common to the Project area and support wildlife habitat and commercially available. As noted, ranching will also be continued on the land post-mining. Therefore, selected species will also be chosen that are supportive of grazing.



A Proposed Schedule for Reclamation Measures § R27-971, B.10

Figures 4 and 5 show existing and proposed topography for the site facilities. The Project includes a total of 3,954 acres of disturbed area. For the purposes of this MLRP, it is assumed that all of the area within the main Project private land boundary area will be disturbed, i.e., includes areas outside of designated facility footprints. Perimeter access and other maintenance roads, including monitoring stations, etc., may be placed in these areas.

A total of 3,387 acres of that total disturbance will be reclaimed. Approximately 567 acres of pit areas will not be reclaimed at closure. These include the Peach, Elgin and Rosemont pits. The remaining pits, Heavy Weight, Copper World, and Broadtop Butte, will be backfilled during operations and the final surfaces reclaimed at closure as part of the main Waste Rock Facility (WRF).

Mining is currently expected to be completed in 15 years. Post-mining reclamation will commence immediately upon the cessation of mining.

Initial reclamation activities are anticipated to be completed within a one (1) to two (2) year period following the cessation of operations. This will be followed by five (5) years of site reclamation monitoring and maintenance.

Active management of seepage/drain-down solutions from the tailings and heap leach facilities will also take place following the cessation of mining operations. Active management of heap leach drain-down solution will take place for approximately eight (8) years, followed by passive solution management. Drain-down solutions will be pumped to the top of the heap and actively evaporated using a "snowmaker" or similar device. Some of the existing HLF ponds would be converted to passive evaporation cells following active management when drain-down flows are minimal.

Final closure/reclamation of the heap leach facility will take place at the transition between active and passive solution management. The majority of costs for closure/reclamation of the heap leach and solution management facilities are associated with the elimination of discharge and are therefore covered under ADEQ's APP program. This includes closure of the heap leach ponds, any recontouring of the heap surface, and the placement of a soil cover on the reclaimed heap. Costs included in this MLRP for the heap facilities include a light regrade, ripping, and seeding.

Similarly, active management of tailings seepage water will occur for TSF-1 and TSF-2. It is anticipated that active management would occur for approximately 30 years for TSF-1 and nine (9) years for TSF-2, followed by passive solution management. Post-closure seepage water collected in the underdrain system, or other collection systems such as interceptor wells, will be pumped to the Primary Settling Pond (also termed an Auxiliary Tailings Facility. Water would then be pumped to the top of the tailings and actively evaporated using a "snowmaker" or similar device. Some of the existing seepage collection facilities would be converted to



passive sulfate reducing cells (ore new cells constructed) following active management when seepage flows are minimal.

Final closure/reclamation of the tailings facilities will take place at the transition between active and passive solution management. As with the heap leach facilities, the majority of costs for closure/reclamation of the tailings and solution management facilities are associated with the elimination of discharge and are therefore covered under ADEQ's APP Program. This includes closure of an ponds associated with the tailings process, any recontouring of the tailings surface, and the placement of a soil cover on the reclaimed tailings. Costs included in this MLRP for the tailings storage facilities include a light regrade, ripping, and seeding.

In addition to solution management, up to 30 years of post-closure monitoring is also anticipated under ADEQ's APP Program at select point of compliance (POC) wells.



Estimated Costs to Perform Each of the Proposed Reclamation Measures § R27-971, B.11

Reclamation cost estimates were performed using the Standard Reclamation Cost Estimator (SRCE) spreadsheets (SRCE 2021). Descriptions of cost estimating assumptions, reclamation activities and quantities, and resulting costs are provided in **Appendix A**. A cost summary is provided in **Table 3** below.

Table 3 Reclamation Cost Summary under ASMIs MLRP Program

Cost Element	Labor	Equipment	Material	Total
Earthwork/Recontouring	\$1,041,222	\$1,723,624	\$149,289	\$2,914,135
Revegetation/Stabilization	\$482,124	\$172,189	\$1,344,698	\$1,999,011
Waste Disposal	-	-	-	\$143,213
Structure, Equipment, and Facility Removal	\$8,718,267	\$3,663,271	\$266,568	\$12,648,106
Monitoring	\$105,331	\$23,913	\$134,469	\$263,713
Construction Management and Support	\$33,677	\$6,578	\$0	\$40,255
Indirect Costs	-	-	-	\$6,401,034
Total	\$10,380,621	\$5,589,575	\$1,895,024	\$24,409,467

Closure costs associated with those facilities regulated under ADEQ's aquifer protection permit (APP) program (APP Program) were also estimated as part of preparing an application submittal to that agency. The closure strategy and associated costs under ADEQ's APP Program relate to the elimination of discharge following the cessation of operations versus costs associated with reclamation, erosion control, and general infrastructure demolition and removal required by the ASMI. Reclamation and closure costs are apportioned as needed to the respective agency to avoid double bonding.

The closure costs associated with ADEQ's APP Program without fluid management/monitoring is estimated to between \$26 million to \$30 million dollars.

Using a combined reclamation and closure cost estimate of \$55 million (ASMI and ADEQ) for the Rosemont Copper World Project (without fluid management), and a total reclaimed area of 3,387 acres, the cost per acre of reclamation is about \$16,200.

With respect to bonding for disturbances associated with the Rosemont Copper World Project, staged bonding for the Project is requested. Bonding will be revisited as needed depending on permitting advancements and Project development. A per acre reclamation estimate of \$2,000 is proposed instead of the approximate per acre estimate of \$1,500 calculated herein for minor regrading, scarifying, and seeding. As a note, the \$2,000 per acre number is the standard ASMI uses for exploration type projects.



As such, Rosemont proposes to establish a minimum bond amount of \$7,908,000 under the MLRP Program for this Project to account for potential disturbances on all 3,954 acres of land listed in **Table 2**.



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References

ADEQ, 2004. Arizona Mining BADCT Guidance Manual. Publication # TB 04-01.



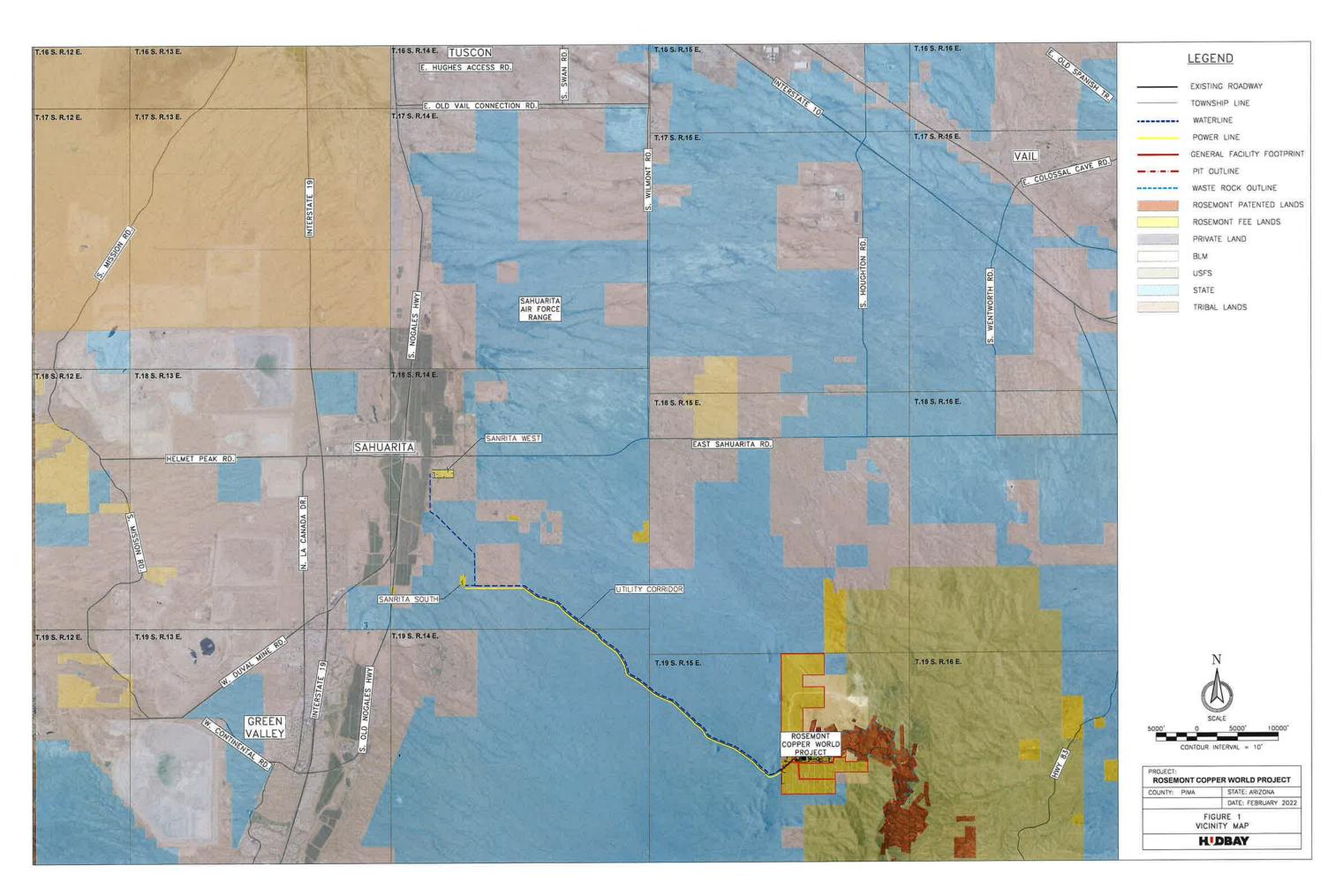
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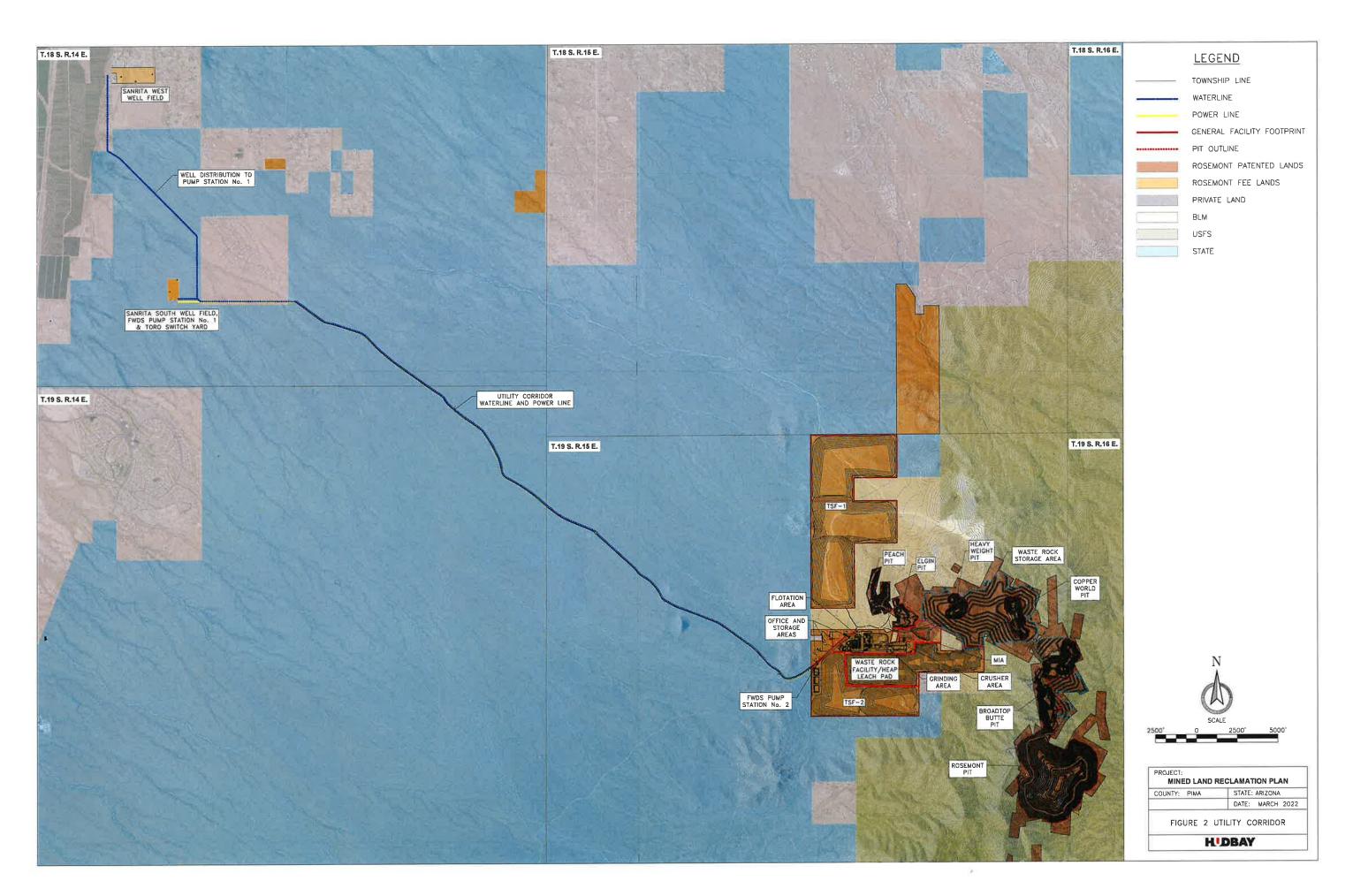


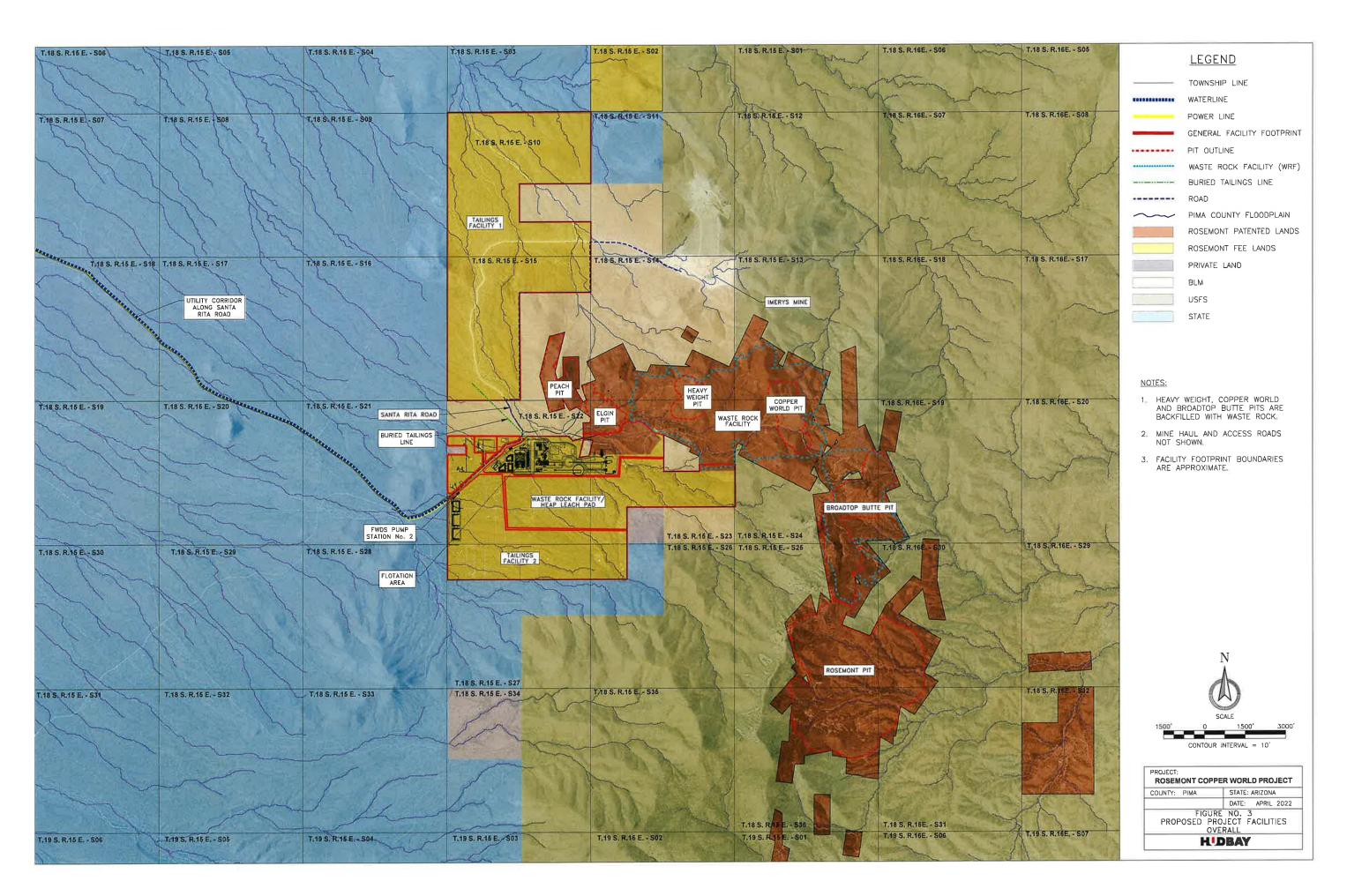
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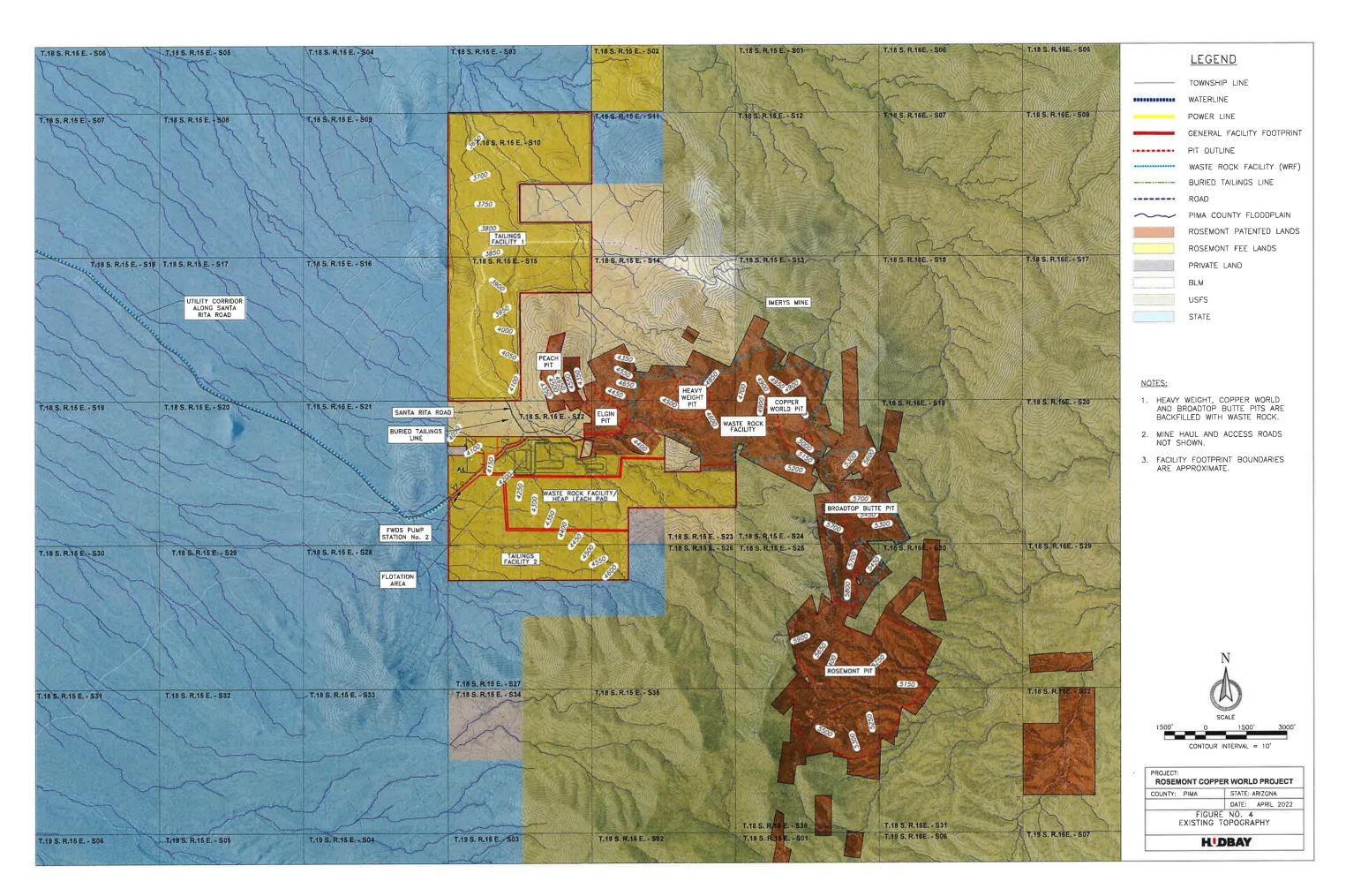


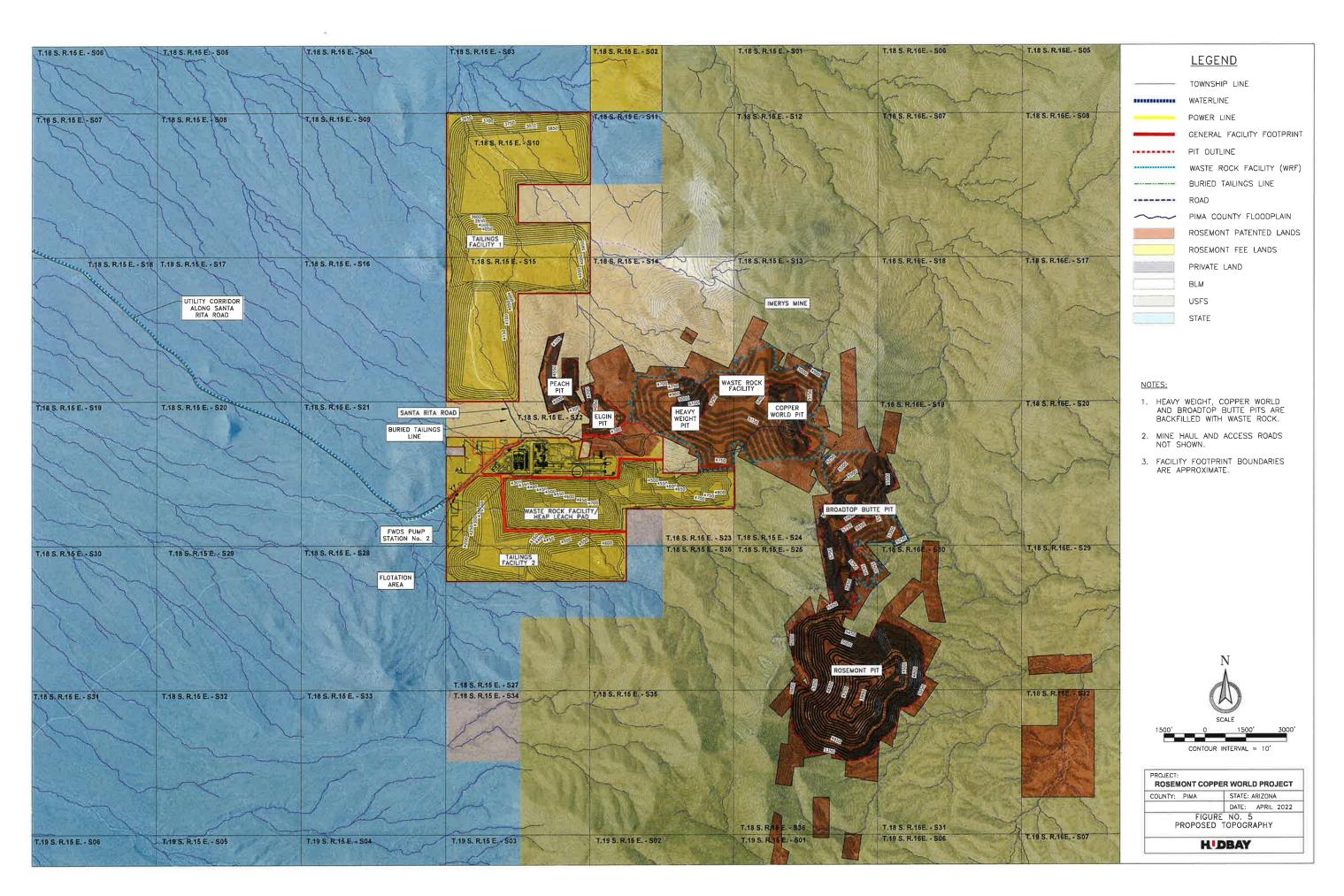
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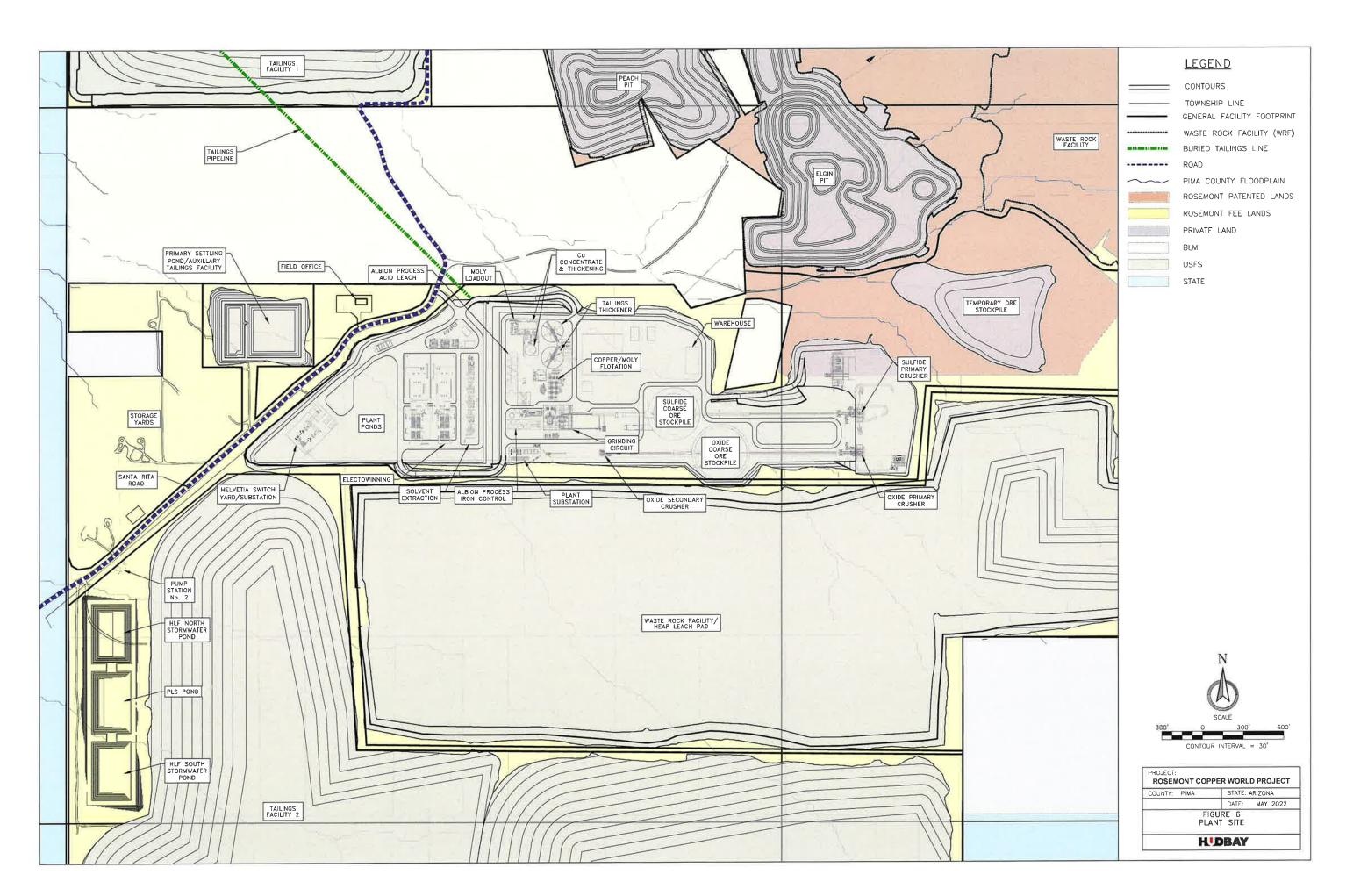












Appendix A

Reclamation Cost Estimates



Appendix A ● Reclamation Cost Estimates	
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Memorandum

Rosemont Copper World Mined Land Reclamation Plan April 2022 Reclamation Cost Basis

This document outlines the reclamation process and assumptions behind developing reclamation costs for the Rosemont Copper World Project (Project) in Pima County, Arizona as part of the Mined Land Reclamation Plan submitted to the Arizona State Mine Inspector (ASMI). Reclamation costs were estimated using the Standard Reclamation Cost Estimator (SRCE) software from the Nevada Division of Environmental Protection (https://ndep.nv.gov/land/mining/reclamation/reclamation-cost-estimator) developed as a collaborative effort between the Nevada Department of Environmental Protection, Bureau of Mining Regulation and Reclamation, U.S. Department of Interior, Bureau of Land Management, and Nevada Mining Association. The SRCE utilizes standardized reclamation calculation methods, productivity data and procedures, and user-inputted data to create a cost-estimate for mine closure and reclamation activities.

The information below summarizes each applicable reclamation component for the Project at closure and the SRCE model assumptions used to calculate the reclamation costs. It was assumed that large or medium sized equipment would be used for all activities. It was also assumed that salvaged growth media (soil) would be stockpiled for use as cover on the tailings facilities (TSFs), heap leach, plant site and in other areas as needed. For the purposes of this MLRP, it was assumed that salvaged soil material for the Plant Site area would be stockpiled within or adjacent to this same area. No additional soil cover would be placed on the reclaimed surfaces of the WRF. Material from the WRF could also be used as non-erosive rock cover for other facilities where needed.

All reclaimed areas would be seeded with native species.

Cost-Data

Cost-Data was imported from the SRCE database as a User-Generated Data file using the Southern Nevada cost basis with minor adjustments made for Pima County, AZ. The Southern Nevada database costs are related to the Las Vegas, Nevada area (Clark County, Nevada) which are considered similar to costs in the Tucson, Arizona area (Pima County, Arizona) where the Rosemont Copper World Project is located. Labor rates and indirect costs are based on latest available (2020 and 2021) Arizona Davis-Bacon rate schedules for equipment operators and laborers. Project management and technical labor are based on RS Means 2020 labor rates. Materials costs, equipment operating rates, fuel usage, and equipment maintenance costs are based on regional vendor quotes, RS Means 2020, and CAT Handbook. Details for pricing are provided within the cost summary sheets attached.

Waste Rock Facility

For cost estimation, one (1) main waste rock facility (WRF) is assumed for the Project. Waste rock is also placed in other portions of Project. However, reclamation costs associated with those portions of the Project are included in other respective facilities such as the heap leach, plant site, etc.

The main WRF was divided into two sections, a west portion and an east portion. The west portion of the WRF extends from the east edge of the Elgin Pit to the east edge of the Copper World Pit. The east portion of the WRF extends from the east edge of the Copper World Pit to



the northern boundary of the Rosemont Pit. The footprint of the WRF covers approximately 725 acres (2-dimensional area) or 762 acres (3-dimensional area), 355 acres of which are considered sloped and 407 acres of flatter top and bench areas.

It is assumed that the top areas of the WRF would require minor regrading to provide proper drainage post-closure. A volume equal to one (1) foot over 1/3 of the top WRF areas would be graded. The top areas would then be scarified and seeded.

The slopes of the WRF would be placed at their final configuration during operations. Waste rock is placed in 100-foot lifts at an overall slope angle of 2.2: 1 (H:V). A 24-foot-wide bench will be placed every 100-foot lift. Inner bench angles with be about 1.4:1 (H:V). The sloped areas would be seeded at closure. No other surface preparation is anticipated on these rocky slopes.

Heap Leach

The Project contains one (1) heap leach facility (HLF) that included a heap leach pad (HLP) and lined ponds. The closure of the heap leach and associated ponds are accounted for in a closure cost estimate developed as part of an APP Program submission to ADEQ for the Rosemont Copper World Project. However, costs for minor grading, scarifying and seeding of the full area of the heap leach pad and process ponds are included in this MLRP (within the 'Yards' module) to account for disturbances occurring prior to and after heap leach construction and to account for any disturbance that might occur between the facility and the property boundaries.

Tailings

The Project contains two (2) tailings facilities. The closure of the tailings and associated infrastructure are accounted for in a closure cost estimate developed as part of an APP Program Submission to ADEQ for the Rosemont Copper World Project. However, reclamation costs for minor grading, scarifying and seeding of the full area of the tailing's facilities are included in this MLRP (within the 'Yards' module) to account for disturbances occurring prior to and after tailings facility construction and to account for any disturbance that might occur between the facilities and the property boundaries.

Roads

Within the Rosemont Copper World Project area there are haul roads and access roads that will require reclamation work. The reclamation process was slightly different for each type of road and is further explained below.

Haul Roads

There are approximately 3.9 miles of on-site haul roads (outside of pit areas) with an average width of 114-feet. These will be reclaimed to a width of 20-feet to allow for future monitoring and maintenance access. For reclamation, approximately 94-feet of the haul road width will be regraded and seeded. The cover soil will be salvaged from the cut/fill material placed adjacent to the haul roads during construction. It is assumed that the haul roads each have a 6-foot safety berm on one side of the road. Culverts are also dispersed throughout the haul roads, the reclamation process for those is explained in the Misc. Costs section.

Utility Corridor Access Road

The utility corridor contains an approximate 12.1-mile access road with an average disturbance width of 30-feet (about 40 acres of disturbance). It was assumed that there were no safety berms on this road, and that the entire width would be reclaimed at mine closure. It is also assumed that the FWDS and WWDS pipelines lie within the reclamation area of the access road.



It was assumed that miscellaneous areas associated with the utility corridor, including powerline tower bases, pump stations, and other access areas, would be reclaimed as part of the access road disturbance. These miscellaneous areas total about 33 acres for a total utility corridor area of 73 acres. The utility corridor access road would be regraded, scarified and seeded. It is assumed that any required cover soil would be salvaged from available regraded road materials.

Within the utility corridor there are 12.1 miles of water pipeline associated with both the fresh water delivery system (FWDS) and the well water distribution system (WWDS). For convenience, the reclamation of the pipeline corridor was included in the SRCE road costs module. Pipeline removal is included under the Misc. Costs. After pipeline removal, the corridor area would be regraded, scarified and seeded as part of reclamation of the utility corridor road reclamation. It is assumed that any required cover soils would be material salvaged during the installation and removal of the pipeline.

Pits

At closure, pit access will be restricted by the addition of fencing around the entire pit perimeter (see Misc. Costs). Therefore, no safety berms are included. This applies to the Peach, Elgin and Rosemont pits. Other pits, Heavy Weight, Copper World, and Broadtop Butte, will be backfilled with waste rock as part of the main waste rock facility.

Quarries and Borrow Pits

The Project does not currently include any quarries or borrow pits that would be located outside of the current facility footprints.

Underground Openings

This MLRP does not currently include a provision for the closure of underground openings. Closure of historic mine openings would occur during Project construction or during operations.

Haul Material

The Project does not currently include any additional haul material for outside sources.

Foundations & Buildings

The total square footage of buildings and other structures is estimated at about 630,340 square feet. Structures include those associated with crushing, grinding and flotation circuits, copper concentrate and molybdenum loadout areas, concentrate leach facilities, tailings thickeners, reagent storage areas, solvent extraction and electrowinning facilities, mine infrastructure and maintenance areas, substations, administration and warehouse buildings, and other miscellaneous mine-support facilities. The dimensions in the SRCE are estimates and for each structure includes an eve height, 6-inch or 12-inch slab thickness (depending upon the type of building), foundation wall thickness and foundation wall height.

For reclamation, the concrete foundations will be broken and buried in place, with about 4-feet of cover placed on top. Cover, including growth media, will be obtained from materials immediately adjacent to the area. The building areas will then be graded using soil from original construction grading. Regraded disturbed areas will then be scarified and seeded.



Other Demo & Equip Removal

Demolition of two pump stations, which are part of the fresh-water delivery system, was included in the calculations. Demolition cost was estimated at \$63,000 for each pump station. The approximate 1,700-foot-long buried tailings slurry pipeline between the mill and TSF-1 is assumed to be 24-inches in diameter and will be closed in place by filling with cement grout.

Sediment & Drainage Control

For stormwater control and sediment control at closure, an estimate based on similarly sized projects was used for the total length of diversion channels and amount of sediment basins.

Diversion Ditches

Stormwater diversion channels not included as part of costs associated with the APP Program cost estimate for the Rosemont Copper World Project are included herein. It is estimated that approximately 30,350 feet of diversion channels will be required at closure for inclusion in this MLRP. Of this total, it was assumed that 6,350 feet would require riprap armoring. Calculations included riprap on the bottom and sides of these ditches.

Sediment Basins

It was assumed that there would be up to five additional sediment basins constructed during the 24-month reclamation and closure period in addition to the ones constructed during operations at various locations around the Project. Each basin is estimated to be 100-feet by 300-feet and have a depth of 6-feet. The calculations used, assumed that all excavated material would be used to build a berm around the sediment basin. It was also assumed that no liners would be installed in the ponds. These areas are also assumed to be reclaimed and seeded.

Process Ponds, Landfills

The Project does not include an active landfill. Additionally, costs associated the closure of process related ponds are included in an estimate developed as part of an APP Program submission to ADEQ for the Rosemont Copper World Project. However, costs for light regrading, scarifying, and seeding of these pond areas is included in this MLRP.

Yards

A number of areas are included in the 'Yards' module that will have different reclamation treatments. The main plant site areas, including adjacent facility and stockpile areas, will be graded, covered with soil (stockpiled cover soil), scarified, and seeded. (Note: Building areas are reclaimed under the 'Foundations and Buildings' module).

Other "Yard' areas will be reclaimed by minor grading, scarifying, and seeding. These areas include general yard/storage areas (77 acres) and buffer areas between facilities and property boundaries (673 acres). In addition, the footprint areas of TSF-1, TSF-2, heap leach pad, and process pond areas are included in the "Yards" module. Reclamation of these areas will include minor grading, scarifying and seeding. Other closure costs associated with discharge reduction are included in the APP Program submission to ADEQ.

Waste Disposal

Most solid waste during closure will be removed from the site as part of the building demolition costs. Additional (miscellaneous) solid waste removal is estimated to be 2,000 cubic yards. It is assumed that solid waste dumpsters would be rented over the estimated initial 12 to 24-month reclamation period.

CDM Smith

Well Abandonment

Wells included in the cost-estimate include 10 dewatering wells. Each dewatering well is assumed to be 12-inches in diameter and 1,000 feet in depth. The reclamation cost-estimate assumes that the holes would be grouted and capped at surface with neat cement. Foe this MLRP, it is assumed that only dewatering wells associated with the Rosemont Pit would require abandonment at closure. Abandonment of the dewatering wells associated with the remaining pits would occur during operations.

Point of Compliance (POC) monitoring wells were assumed to remain as part of the ADEQ Aquifer Protection Permit Program. Production water wells in the Sanrita West and Sanrita South areas were assumed to be capped but not abandoned. Five (5) production wells are planned.

Misc. Costs

Miscellaneous costs included fence installation around the pits to restrict access, culvert and buried pipe removal/abandonment, and power line and switchyard/substation removal.

Fence Installation

A six (6) foot high chain link fence with barbed wire is assumed to be installed around the perimeter of the private land holdings associated with the Project at the time of construction. This fencing is assumed to be left intact at closure with respect to this MLRP. The same chain link fencing will be installed around the remaining interior portions of the Elgin Pit at closure. Small section of fencing at the Peach and Rosemont pits will also be added. The length of fencing installed at closure is estimated to be about 6,530 feet.

Culvert and Buried Pipe Removal/Abandonment

The removal of the 12.1-mile-long freshwater delivery system pipeline within the utility corridor is included in this portion of the estimate. The pipeline length is estimated at 64,000-feet and is assumed to be 24-inches in diameter. This portion of the SRCE is only relevant for the removal of this pipeline. The reclamation costs for this area are calculated in the previous section for Roads.

Removal of the culverts underneath the Haul Roads and Access Roads was also included in this section. It was assumed there were 10 culverts per mile of haul road (3.9 miles total length outside of the pits), each 140-feet in length and 24-inches in diameter. In order to preserve a 20-foot access road along these haul roads for future maintenance activities, it was assumed that a 40-foot length segment would be left in place at each culvert location. The removal of culverts associated with the former plant site roads were assumed to consist of 10 culverts, each 60-feet in length and 24-inches in diameter. Reclamation of these plant site roads was included in the general area grading.

It was assumed that no culverts were installed along the 12.1-mile length of the utility access road.

The approximate 1,700-foot-long buried tailings slurry pipeline between the mill and TSF-21 is assumed to be 24-inches in diameter and will be closed in place by filling with cement grout. Reclamation costs are discussed above under Other Demo & Equipment.



Power Line and Switchyard/Substation Removal

For reclamation of the site, 9.1-miles of main powerline, Toro switchyard, on-site power lines and on-site substations will be removed. On-site substations include Helvetia, plant, and two SX-EW rectifier/substations. On-site powerlines are assumed to total 0.5 miles in length. It was assumed the powerlines are single pole construction. Reclamation of disturbed areas associated with removal of the powerlines and substations is assumed coincident and part of the water line removal and reclamation cost and general plant site reclamation costs.

Reclamation Maintenance and Monitoring

For reclamation maintenance, it was assumed that 10% of the total revegetation area would need to be reseeded per year. It was also assumed that 10% of the graded and reclaimed area would need erosion maintenance per year. Maintenance was assumed to occur for 5 years. This includes those reclaimed areas associated with the larger facilities such as the heap, tailings and WRF.

Reclamation monitoring during the 5-year reclamation and monitoring period is included in this MLRP.

No soil or water sampling is included in the cost estimate. These costs are accounted for in a closure estimate developed for an APP Program submission to ADEQ for the Rosemont Copper World Project.

Construction Management and Road Maintenance

It was assumed that reclamation could be completed in 24 months of full-time work. Construction management costs includes one supervisor working full time (8 hours per day) for the duration of the reclamation and closure period (24 months). These costs are accounted for in a closure estimate developed for an APP Program submission to ADEQ for the Rosemont Copper World Project. Field office and associated field services were also included in the estimate developed for ADEQ for the 24-month reclamation and closure period.

Road maintenance and dust control during active reclamation and closure were also accounted for in the cost estimate developed for an APP Program submission to ADEQ for the Rosemont Copper World Project.

For construction management during the 5-year reclamation monitoring and maintenance period, one part-time (12 hours per quarter) supervisor was assumed. A field office and associated field services were also included in the estimate provided in this MLRP to cover the 5-year reclamation monitoring and maintenance period.



Enter Data Below in Green and Blue Spaces

STANDARDIZED RECLAMATION COST ESTIMATOR

Version 1.4.1 Build 017b (Revised 16 May 2019)

Approved for use in Nevada, August 1, 2012

COST DATA FILE INFORMATIO	ON
File Name:	Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm
Cost Data File:	SRCE_Cost_data-USR_1_12.xlsm
Cost Data Date:	April 15, 2022
Cost Data Basis:	User Data Data Cost Units: Imperial
Author/Source:	CDM Smith
PROJECT INFORMATION	
Property/Mine Name:	Rosemont Copper World Project Property Code:
Project Name:	Rosemont Copper World Mined Land Reclamation Plan
Date of Submittal:	May 3, 2022 Average Altitude: 4300 ft.
Select One:	☐ Notice or Sm Exploration Plan ☐ Lg Exploration Plan ☐ Mine Operation
Select One:	☐ Private Land ☐ Public or Public/Private
Cost Estimate Type:	Surety
Cost Basis Category:	Southern Nevada - Adjusted for Arizona
Cost Basis Description:	Clark, Esmeralda, Lincoln and Nye Counties - Adjusted for Pima County, AZ

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e: Rosemont Copper World Mined Land Reclamation Plan

Project Date: May 3, 2022	
t_RP21_MLRP_SRCE_Version_1_4_1_017_N\ Reclamation Plan	VD_U5U322.XISM
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User Sheet 10

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Note: Pages 5, 33, 34, 35, 60, 61, 64, 65, 71, 110-131 deleted (blank pages)

Closure Cost Estimate Cost Summary

Project Name: Rosemont Copper World Mined Land Reclamation Plan Project Date: May 3, 2022 Model Version: Version 1.4.1 File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

A. Earthwork/Recontouring	Labor (1)	Equipment (2)	Materials	Total
Exploration	\$0	\$0	\$0	
Exploration Roads & Drill Pads Roads	\$0 \$20,695	\$0 \$78,491	\$0 \$0	\$99.1
Well Abandonment	\$135,406	\$252,808	\$21,161	\$409,3
Pits	\$0	\$0	N/A	
Quarries & Borrow Areas	\$0	\$0	\$0	
Underground Openings	\$0	\$0	\$0	
Process Ponds Heaps	\$0 \$0	\$0 \$0	\$0 \$0	
Waste Rock Dumps	\$29,954	\$121,651	\$0 \$0	\$151,6
Landfills	\$0	\$0	\$0	Ψ(σ),σ
Tailings	\$0	\$0	\$0	
Foundation & Buildings Areas	\$57,566	\$140,736	\$0	\$198,3
Yards, Etc.	\$308,368	\$1,053,908	\$0	\$1,362,2
Drainage & Sediment Control	\$242,111	\$76,030	\$128,128	\$446,2
Generic Material Hauling	\$0	\$0	\$0	
Other User Costs (from Other User sheet)	\$0	\$0	\$0	
Other** Subtotal	\$794,100	\$1,723,624	\$149,289	\$2,667,0
untotal		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Mob/Demob if included in Other User sheet	\$0	\$0	\$0	
Mob/Demob See Mob/Demob Workbook	\$247,122			\$247,1
Subtotal "A"	\$1,041,222	\$1,723,624	\$149,289	\$2,914,1
3. Revegetation/Stabilization	Labor (1)	Equipment (2)	Materials	Total
Exploration	\$0	\$0	\$0	
Exploration Roads & Drill Pads	\$0	\$0	\$0	
Roads	\$17,692	\$6,320	\$49,695	\$73,7
Well Abandonment	7.3,500			1
Pits	\$0	\$0	\$0	
Quarries & Borrow Areas	\$0	\$0	\$0	
Underground Openings				
Process Ponds	\$0	\$0	\$0	
Heaps	\$0	\$0	\$0	
Waste Rock Dumps	\$106,704	\$38,109	\$299,724	\$444,
Landfills	\$0	\$0	\$0	
Tailings	\$0	\$0	\$0	
Foundation & Buildings Areas	\$6,048	\$2,160	\$7,432	\$15,0
Yards, Etc.	\$349,020	\$124,650	\$980,373	\$1,454,0
Drainage & Sediment Control	\$2,660	\$950	\$7,474	\$11,0
Generic Material Hauling Other User Costs (from Other User sheet)	\$0 \$0	\$0 \$0	\$0 \$0	
Other oser costs (from other oser sneet) Other**		3U	\$0	
	\$482,124	#470.400	64.244.600	64 000 0
Subtotal "B"	\$402,124	\$172,189	\$1,344,698	\$1,999,0
Detayification/Mater Treetment/Diamond of Wester**	Labor (1)	Equipment (2)	Motoriala	Total
C. Detoxification/Water Treatment/Disposal of Wastes**	Labor (1)	Equipment (2)	Materials	Total
Process Ponds/Sludge	Labor (1)	Equipment (2)	Materials	
Process Ponds/Sludge Heaps	Labor (1)	Equipment (2)	Materials	
Process Ponds/Sludge Heaps Dumps (Waste & Landfill)	Labor (1)	Equipment (2)	Materials	
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings	Labor (1)	Equipment (2)	Materials	
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal	Labor (1)	Equipment ⁽²⁾	Materials	
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings	Labor (1)	Equipment (2)	Materials	
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring	Labor (1)	Equipment (2)	Materials N/A	Total
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils	\$0	\$0	N/A S0	
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet)	\$0.	\$0	N/A	
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other**	\$0	\$0	N/A S0	
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet)	\$0	\$0	N/A S0	**Total
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other**	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	N/A \$0 \$0	\$143.2
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other* Subtotal "C"	\$0 \$0 \$0 \$0	\$0 \$0 \$0	N/A \$0 \$0	\$143.
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other**	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	N/A S0 S0 S0 S0	\$143. \$143.2
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc.	\$0 \$0 \$0 \$0 Labor (1)	\$0 \$0 \$0 \$0 Equipment (2)	N/A \$0 \$0 \$0 \$0 \$0	\$143 <u>.</u> \$143,2 Total
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal	\$0 \$0 \$0 \$0 Labor (1) \$6,794,566 \$82,472 \$0	\$0 \$0 \$0 \$0 Equipment (2) \$3,285,993 \$78,560 \$0	N/A \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$143,2 \$143,2 Total \$10,080,1
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal	\$0 \$0 \$0 \$0 Labor (1) \$8,794,566 \$82,472 \$0 \$0	\$0 \$0 \$0 \$0 Equipment (2) \$3,285,993 \$78,560 \$0 \$0	N/A \$0 \$0 \$0 \$0 \$0 \$18,428 \$0 \$0	\$143,2 \$143,2 Total \$10,080, \$179,
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other" Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Deservoir Company Contaminated Fence Removal Fence Removal Fence Removal Fence Installation	\$0 \$0 \$0 \$0 \$0,794,566 \$82,472 \$0 \$0,90 \$59,292	\$0 \$0 \$0 \$0 Equipment (2) \$3,285,993 \$78,560 \$0 \$0 \$9,38	NVA	\$143, \$143,2 Total \$10,080, \$179,
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other* Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Fence Installation Culvert Removal	\$0 \$0 \$0 \$0 \$0 \$6,794,566 \$82,472 \$0 \$9,0 \$9,0 \$1,037,634	\$0 \$0 \$0 \$0 Equipment (2) \$3,285,993 \$78,560 \$0 \$9,338 \$289,338	N/A \$0 \$0 \$0 \$0 \$0 \$18,428 \$0 \$0 \$248,140 \$0 \$0 \$1,428 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$143, \$143,2 Total \$10,080, \$179,
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other" Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal	\$0 \$0 \$0 \$0 Labor (1) \$6,794,566 \$82,472 \$0 \$5,9292 \$1,037,634	\$0 \$0 \$0 \$0 Equipment (2) \$3,285,993 \$78,560 \$0 \$0 \$9,38	NVA	\$143,2 Total \$10,080, \$179, \$316, \$1,327,
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Denomination Companies of the Compani	\$0 \$0 \$0 \$0 \$0,794,566 \$82,472 \$0 \$0,00 \$0,00 \$1,007,634 \$0,00 \$49,318	\$0 \$0 \$0 \$0 Equipment (2) \$3,285,993 \$78,560 \$0 \$9,338 \$289,338	N/A \$0 \$0 \$0 \$0 \$0 \$18,428 \$0 \$0 \$248,140 \$0 \$0 \$1,428 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$143,2 Total \$10,080, \$179, \$316, \$1,327, \$449,
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other* Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Prowerline Removal Foverline Removal Foverline Removal Foverline Removal Foverline Removal Foverline Removal	\$0 \$0 \$0 \$0 \$0 \$6,794,566 \$32,472 \$0 \$5,20 \$1,037,634 \$0 \$449,318 \$294,985	\$0 \$0 \$0 \$0 Equipment (2) \$3,285,993 \$78,560 \$0 \$9,338 \$289,380 \$289,380	N/A S0 \$0 \$0 \$0 \$0 \$0 \$18,428 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$143,2 Total \$10,080, \$179, \$316, \$1,327, \$449,
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other " Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Powerline Removal Rip-rap, rock lining, gabions	\$0 \$0 \$0 \$0 Labor (1) \$8,794,566 \$82,472 \$0 \$59,292 \$1,037,634 \$0 \$449,318 \$294,985 \$0	\$0 \$0 \$0 Equipment (2) \$3,285,993 \$78,560 \$0 \$0 \$9,338 \$289,380 \$0	N/A \$0 \$0 \$0 \$0 \$18.428 \$0 \$18.428 \$0 \$18.428 \$0 \$18.428 \$0 \$18.428 \$0 \$0 \$18.428 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$143,2 Total \$10,080, \$179, \$316, \$1,327, \$449,
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other" Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Transformer Removal Transformer Removal Transformer Removal Transformer Removal Rip-rap, rock lining, gabions Other Misc. Costs	\$0 \$0 \$0 \$0 \$6,794,566 \$82,472 \$0 \$5,90 \$1,037,634 \$294,985 \$0 \$5,90 \$1,037,634	\$0 \$0 \$0 \$0 Equipment (2) \$3,285,993 \$78,560 \$0 \$0 \$289,380 \$0 \$0 \$0 \$0	N/A	\$143,2 \$143,2 Total \$10,080,1
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Fence Removal Pipe Removal Pipe Removal Pipe Removal Rip-rap, rock lining, gabions Other Misc. Costs Other User Sosts (from Other User sheet)	\$0 \$0 \$0 \$0 Labor (1) \$8,794,566 \$82,472 \$0 \$59,292 \$1,037,634 \$0 \$449,318 \$294,985 \$0	\$0 \$0 \$0 Equipment (2) \$3,285,993 \$78,560 \$0 \$0 \$9,338 \$289,380 \$0	N/A \$0 \$0 \$0 \$0 \$18.428 \$0 \$18.428 \$0 \$18.428 \$0 \$18.428 \$0 \$18.428 \$0 \$0 \$18.428 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$143,2 Total \$10,080,1 \$179, \$316, \$1,327,1 \$449,
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Pipe Removal Pipe Removal Powerline Removal Rip-rap, rock lining, gabions Other User Sheet) Other "Fanson Removal Rip-rap, rock lining, gabions Other Wisc. Costs Other User Sheet) Other "Sheet Costs (from Other User sheet)	\$0 \$0 \$0 \$0 \$0 \$1,794,566 \$82,472 \$0 \$59,292 \$1,037,634 \$0 \$449,318 \$294,985 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 Equipment (2) \$3,285,993 \$78,560 \$0 \$0 \$9,338 \$289,380 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	N/A \$0 \$0 \$0 \$0 \$0 \$18,428 \$0 \$248,140 N/A N/A \$0 \$0 \$0 \$0 \$0 \$0	\$143,2 Total \$10,080,6 \$179,0 \$316,0 \$1,327,0 \$449,0 \$294,0
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Fence Removal Pipe Removal Powerline Removal Rip-rap, rock lining, gabions Other Misc. Costs Other User Costs (from Other User sheet)	\$0 \$0 \$0 \$0 \$6,794,566 \$82,472 \$0 \$5,90 \$1,037,634 \$294,985 \$0 \$5,90 \$1,037,634	\$0 \$0 \$0 \$0 Equipment (2) \$3,285,993 \$78,560 \$0 \$0 \$289,380 \$0 \$0 \$0 \$0	N/A	\$143,2 Total \$10,080, \$179, \$316, \$1,327, \$449, \$294,
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pipe Removal Pipe Removal Transformer Removal Rip-rap, rock lining, gabions Other User Costs (from Other User sheet) Other Misc. Costs Other User Costs (from Other User sheet) Other Misc. Costs Other User Costs (from Other User sheet) Other**	\$0 \$0 \$0 \$0 \$6,794,566 \$82,472 \$0 \$59,292 \$1,037,634 \$294,985 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 Equipment (2) \$3,285,993 \$78,560 \$0 \$0 \$289,380 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	N/A \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$143,2 Total \$10,080, \$179, \$316, \$1,327, \$449, \$294,
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Powerline Removal Transformer Removal Rip-rap, rock lining, gabions Other User Costs (from Other User sheet) Other User Costs (from Other User sheet)	\$0 \$0 \$0 \$0 \$0 \$6,794,566 \$82,472 \$0 \$50 \$50 \$2,472 \$1,037,634 \$0 \$449,318 \$294,985 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 Equipment (2) \$3,285,993 \$78,560 \$0 \$0 \$289,380 \$0 \$0 \$0 \$0 \$1 \$289,380 \$0 \$1 \$289,380 \$1 \$1 \$289,380 \$1 \$1 \$1 \$289,380 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1	N/A \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$143,2 Total \$10,080, \$179, \$316, \$1,327, \$449, \$294,
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Fence Removal Pipe Removal Pipe Removal Powerline Removal Rip-rap, rock lining, gabions Other User sots (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Fence Removal Pipe Removal Other Misc. Costs Other User Sots (from Other User sheet) Other** Subtotal "D" D. Monitoring Reclamation Monitoring and Maintenance	\$0 \$0 \$0 \$0 \$0,794,566 \$52,472 \$0 \$1,037,634 \$294,985 \$294,985 \$0 \$0 \$0 \$449,318 \$294,985 \$0 \$0 \$0 \$0 \$0 \$0 \$1,037,634 \$1	\$0 \$0 \$0 \$0 \$3,285,993 \$78,560 \$0 \$0 \$289,380 \$289,380 \$289,380 \$289,380 \$289,380 \$289,380 \$289,380 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	N/A \$0 \$0 \$0 \$0 \$0 \$18,428 \$0 \$248,140 N/A N/A \$0 \$20 \$266,568 Materials \$134,469	\$143,2 Total \$10,080, \$179, \$316, \$1,327, \$449, \$294,
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Fence Removal Pipe Removal Transformer Removal Rip-rap, rock lining, gabions Other Misc. Costs Other Misc. Costs Other Misc. Costs Other Misc. Costs Other Other Site Site Misc. Costs Other Other Site Site Misc. Costs Other Mi	\$0 \$0 \$0 \$0 \$6,794,566 \$82,472 \$0 \$5,929 \$1,037,634 \$0 \$449,318 \$294,985 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$1 \$3,285,993 \$78,560 \$0 \$0 \$0 \$0 \$0 \$0 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1	N/A S0 S0 S0 S0 Materials S0 \$18.428 \$248,140 N/A N/A \$50 \$50 \$50 \$50 \$50 \$266,568 Materials \$134,469 \$50	\$143,2 Total \$10,080, \$179, \$316, \$1,327, \$449, \$294,
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other* Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Fence Removal Fence Removal Fence Removal Fence Installation Culvert Removal Rip-rap, rock liming, gabions Other User Costs (from Other User sheet) Other User Costs (from Other User sheet) Other User Costs (from Other User sheet) Other User Costs (from Other User sheet) Other Maccosts Other User Costs (from Other User sheet) Other* Subtotal "D" Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet)	\$0 \$0 \$0 \$0 \$6,794,566 \$82,472 \$0 \$50,292 \$1,037,634 \$294,985 \$0 \$0 \$0 \$0 \$1,037,634 \$2,047,034 \$2,	\$0 \$0 \$0 \$0 \$2 \$3,285,993 \$78,560 \$0 \$0 \$289,380 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	N/A S0 S0 S0 S0 S0 Materials S0 \$18,428 \$0 \$1,428 \$0 \$1,440 N/A N/A N/A S0 \$0 \$266,568 Materials \$134,469 \$0 \$0 \$0	\$143,2 Total \$10,080, \$179, \$316, \$1,327, \$449, \$294, \$12,648,1
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other* Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Fence Removal Fence Removal Fence Removal Fence Installation Culvert Removal Rip-rap, rock liming, gabions Other User Costs (from Other User sheet) Other User Costs (from Other User sheet) Other User Costs (from Other User sheet) Other User Costs (from Other User sheet) Other Maccosts Other User Costs (from Other User sheet) Other* Subtotal "D" Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet)	\$0 \$0 \$0 \$0 \$6,794,566 \$82,472 \$0 \$5,929 \$1,037,634 \$0 \$449,318 \$294,985 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$1 \$3,285,993 \$78,560 \$0 \$0 \$0 \$0 \$0 \$0 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1	N/A S0 S0 S0 S0 Materials S0 \$18.428 \$248,140 N/A N/A \$50 \$50 \$50 \$50 \$50 \$266,568 Materials \$134,469 \$50	\$143,2 Total \$10,080, \$179, \$316, \$1,327, \$449, \$294,
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Pipe Removal Powerline Removal Powerline Removal Fig. Pap. rock lining, gabions Other Misc. Costs Other User Costs (from Other User sheet) Other Wisc. Costs Other User Costs (from Other User sheet) Other Wisc. Costs Other User Costs (from Other User sheet) Other Misc. Costs Other User Costs (from Other User sheet) Other* Subtotal "D" Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E"	\$0 \$0 \$0 \$0 \$6,794,566 \$82,472 \$0 \$0 \$59,292 \$1,037,634 \$0 \$0 \$449,318 \$224,985 \$0 \$0 \$0 \$0 \$0 \$1,037,634 \$0 \$0 \$0 \$0 \$1,037,634 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$1 \$3,285,993 \$78,560 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1	N/A \$0 \$0 \$0 \$0 \$18,428 \$18,428 \$0 \$248,140 N/A N/A \$0 \$0 \$0 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$1	\$143,2 Total \$10,080, \$179, \$316, \$1,327, \$449, \$294, \$12,648, Total \$263,7
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other" Subtotal "C" 9. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Powerline Removal Powerline Removal Transformer Removal Rip-rap, rock lining, gabions Other Misc. Costs Other User Costs (from Other User sheet) Other I's Subtotal "D" Subtotal "D" Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E" Construction Management & Support	\$0 \$0 \$0 \$0 \$0,794,566 \$82,472 \$0 \$59,292 \$1,037,634 \$294,985 \$0 \$0 \$0 \$0 \$0 \$1,037,634 \$294,985 \$0 \$0 \$0 \$0 \$1,037,634 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$1 \$3,285,993 \$78,560 \$0 \$3,380 \$289,380 \$0 \$0 \$0 \$0 \$1 \$1 \$2,3913 \$1 \$2,3913 \$1 \$2,3913 \$1 \$2,3913 \$1 \$2,3913 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1	N/A S0 S0 S0 S0 S0 Materials S0 \$18,428 \$248,140 N/A N/A S0 S0 S0 S0 S0 S134,469 Materials Materials Materials	\$143,2 Total \$10,080, \$179, \$316, \$1,327, \$449, \$294, \$12,648, Total \$263,7
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other* Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Fence Removal Fence Removal Fence Removal Transformer Removal Transformer Removal Rip-rap, rock liming, gabions Other User Costs (from Other User sheet) Subtotal "D" . Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E" . Construction Management & Support Construction Management	\$0 \$0 \$0 \$0 \$0 \$0 \$1 \$0,794,566 \$82,472 \$0 \$0 \$39,292 \$1,037,634 \$294,985 \$0 \$0 \$0 \$0 \$1,037,634 \$1,037,634 \$2,049,318 \$2,049,985 \$0 \$0 \$0 \$0 \$1,037,634 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$2 \$3,285,993 \$78,560 \$0 \$0 \$3,383,388 \$289,380 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	N/A S0 S0 S0 S0 S0 Materials S0 \$18,428 \$0 \$18,428 \$0 \$1,428 \$0 \$1,440 N/A N/A N/A S0 \$0 \$266,568 Materials \$134,469 Materials N/A	\$143,2 Total \$10,080, \$179, \$316, \$1,327, \$449, \$294, \$12,648, Total \$263,7
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other'* Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Powerline Removal Powerline Removal Rip-rap, rock lining, gabions Other Misc. Costs Other User Costs (from Other User sheet) Other " Subtotal "D" Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Sheet) Subtotal "E" Lonstruction Management Construction Management Construction Support	\$0 \$0 \$0 \$0 \$0 \$6,794,566 \$82,472 \$0 \$1,037,634 \$0 \$49,318 \$294,985 \$294,985 \$0 \$0 \$0 \$105,331 \$0 \$105,331 \$0 \$105,331	\$0 \$0 \$0 \$0 \$2 \$3,285,993 \$78,560 \$0 \$0 \$289,330 \$289,330 \$0 \$0 \$0 \$1 \$1 \$1 \$2,3,663,271 \$1 \$2,3,913 \$1 \$1 \$2,3,913 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1	N/A N/A S0 S248,140 N/A N/A	\$143, Total \$10,080, \$179, \$316, \$1,327, \$449, \$294, \$12,648, Total \$263,
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other* Subtotal "C" Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demoition Equipment Removal Fence Removal Fence Removal Pipe Removal Pipe Removal Pipe Removal Pipe Removal Other Misc. Costs Other Viser Costs (from Other User sheet) Other Misc. Costs Other User Costs (from Other User sheet) Other Misc. Costs Other User Costs (from Other User sheet) Other Misc. Costs Other User Costs (from Other User sheet) Other' Subtotal "D" Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E" Construction Management	\$0 \$0 \$0 \$0 \$0,794,566 \$82,472 \$0 \$59,292 \$1,037,634 \$2,94,985 \$0 \$0 \$0 \$0 \$0 \$1,037,634 \$2,94,985 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$1 \$3,285,993 \$78,560 \$0 \$0 \$0 \$0 \$0 \$0 \$1 \$1 \$289,380 \$0 \$0 \$0 \$0 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1	N/A N/A S0 S134,469 Materials N/A S0 S134,469 Materials N/A S0 S0 S134,469 Materials N/A S0 S0 S0 S0 S0 S0 S0 S	\$143, Total \$10,080, \$179, \$316, \$1,327, \$449, \$294, \$12,648, Total \$263, Total
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tallings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other's Subtotal "C" Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Deen Costs Ground Alliands Guipment Removal Fence Removal Fence Removal Fence Removal Pipe Removal Pipe Removal Pipe Removal Transformer Removal Rip-rap, rock lining, gabions Other User Costs (from Other User sheet) Subtotal "D" Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E" Construction Management Construction Support Road Maintenance Construction Management Construction Support Road Maintenance Other User Costs (from Other User sheet)	\$0 \$0 \$0 \$0 \$0 \$6,794,566 \$82,472 \$0 \$1,037,634 \$0 \$49,318 \$294,985 \$294,985 \$0 \$0 \$0 \$105,331 \$0 \$105,331 \$0 \$105,331	\$0 \$0 \$0 \$0 \$2 \$3,285,993 \$78,560 \$0 \$0 \$289,330 \$289,330 \$0 \$0 \$0 \$1 \$1 \$1 \$2,3,663,271 \$1 \$2,3,913 \$1 \$1 \$2,3,913 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1	N/A N/A S0 S248,140 N/A N/A	\$143, Total \$10,080 \$179 \$316 \$1,327 \$449 \$294 \$12,648, Total \$263, Total
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other'* Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Fence Installation Culvert Removal Powerline Removal Powerline Removal Fence Installation Culvert Removal Powerline Removal Forest Installation Culvert Removal Powerline Removal Transformer Removal Rip-rap, rock lining, gabions Other User Costs (from Other User sheet) Other " Subtotal "D" Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Sots (from Other User sheet) Subtotal "E" Construction Management Construction Support Road Maintenance Other User Costs (from Other User sheet) Other'* Construction Support Road Maintenance Other User Costs (from Other User sheet) Other User Costs (from Other User sheet)	\$0 \$0 \$0 \$0 \$0 \$0 \$0,794,566 \$52,472 \$0 \$5,294 \$1,037,634 \$0 \$0 \$449,318 \$294,985 \$0 \$0 \$0 \$0 \$0 \$1,037,634 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$3,285,993 \$78,560 \$0 \$3,388 \$289,380 \$0 \$0 \$0 \$0 \$0 \$0 \$3,663,271 \$0 \$23,913 \$0 \$0 \$23,913 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	N/A \$0 \$0 \$0 \$0 \$0 \$18,428 \$18,428 \$0 \$248,140 \$0 \$0 \$0 \$248,140 \$0 \$0 \$0 \$0 \$134,469 \$0 \$134,469 \$0 \$0 \$134,469 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$143, Total \$10,080 \$179 \$316. \$1,327 \$449 \$294 \$12,648, Total \$263, Total \$40
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Of Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other" Subtotal "C" Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Fence Removal Pipe Removal Pipe Removal Pipe Removal Transformer Removal Rip-rap, rock lining, gabions Other User Costs (from Other User sheet) Subtotal "D" Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E" Construction Management Construction Support Road Maintenance Other User Costs (from Other User sheet)	\$0 \$0 \$0 \$0 \$0,794,566 \$82,472 \$0 \$59,292 \$1,037,634 \$2,94,985 \$0 \$0 \$0 \$0 \$0 \$1,037,634 \$2,94,985 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$1 \$3,285,993 \$78,560 \$0 \$0 \$0 \$0 \$0 \$0 \$1 \$1 \$289,380 \$0 \$0 \$0 \$0 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1	N/A N/A S0 S134,469 Materials N/A S0 S134,469 Materials N/A S0 S0 S134,469 Materials N/A S0 S0 S0 S0 S0 S0 S0 S	\$143, Total \$10,080 \$179 \$316. \$1,327 \$449 \$294 \$12,648, Total \$263, Total \$40
Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other** Subtotal "C" Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Installation Culvert Removal Pence Installation Culvert Removal Pence Installation Culvert Removal Pence Removal Transformer Removal Transformer Removal Transformer Removal Tother User Costs (from Other User sheet) Other Wisc. Costs Other Description Subtotal "D" Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E" Construction Management & Support Construction Management Construction Management Construction Management Construction Management Construction Support Road Maintenance Other User Costs (from Other User sheet) Other'* Construction Management	\$0 \$0 \$0 \$0 \$0 \$0 \$0,794,566 \$52,472 \$0 \$5,294 \$1,037,634 \$0 \$0 \$449,318 \$294,985 \$0 \$0 \$0 \$0 \$0 \$1,037,634 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$3,285,993 \$78,560 \$0 \$3,388 \$289,380 \$0 \$0 \$0 \$0 \$0 \$0 \$3,663,271 \$0 \$23,913 \$0 \$0 \$23,913 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	N/A \$0 \$0 \$0 \$0 \$0 \$18,428 \$18,428 \$0 \$248,140 \$0 \$0 \$0 \$248,140 \$0 \$0 \$0 \$0 \$134,469 \$0 \$134,469 \$0 \$0 \$134,469 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$143, Total \$10,080, \$179, \$316, \$1,327, \$449, \$294, \$12,648, Total \$263, Total

^{**} Other Operator supplied costs - additional documentation required.

Closure Cost Estimate Cost Summary

Project Name: Rosemont Copper World Mined Land Reclamation Plan

Project Date: May 3, 2022 Model Version: Version 1.4.1

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Indirect Costs				Include?	Total
1. Engineering, Design and Construction (ED&C) Plan (7)					\$1,080,506
2. Contingency (8)					\$1,080,506
3. Insurance (9)		\$155,709			\$155,709
4. Performance Bond (10)					\$540,253
Contractor Profit (11)					\$1,800,843
Contract Administration (12)					\$1,440,675
7. Government Indirect Cost (13)					\$302,542
Subtotal Add-On Costs					\$6,401,034
Total Indirect Costs as % of Direct Cost					36%
GRAND TOTAL					\$24,409,467
Administrative Cost Rates (%)		Cost Ban	gas for Indirect Co	at Percentage	
			ges for Indirect Co		
Administrative Cost Rates (%)	<=	<=	ges for Indirect Co <=	>	s
Administrative Cost Rates (%) 1. Engineering, Design and Construction (ED&C) Plan (7)	\$1,000,000	<= \$25,000,000		> \$25,000,000	S Small Plar
Administrative Cost Rates (%)		<=		>	S Small Plan
Administrative Cost Rates (%) 1. Engineering, Design and Construction (ED&C) Plan (7) Variable Rate	\$1,000,000 8% <=	<= \$25,000,000 6% <=	<= <=	\$25,000,000 4%	Small Plan
Administrative Cost Rates (%) 1. Engineering, Design and Construction (ED&C) Plan (7)	\$1,000,000 8%	<= \$25,000,000 6%	<=	> \$25,000,000 4%	Small Plan
Administrative Cost Rates (%) 1. Engineering, Design and Construction (ED&C) Plan (7) Variable Rate 2. Contingency (8) Variable Rate	\$1,000,000 8% <= \$500,000	<= \$25,000,000 6% <= \$5,000,000 8%	<= <= \$50,000,000	\$25,000,000 4% \$50,000,000	Small Plan
Administrative Cost Rates (%) 1. Engineering, Design and Construction (ED&C) Plan (7) Variable Rate 2. Contingency (8)	\$1,000,000 8% <= \$500,000 10% 1.5%	<= \$25,000,000 6% <= \$5,000,000 8% of labor costs	<= <= \$50,000,000	\$25,000,000 4% \$50,000,000	Small Plan
Administrative Cost Rates (%) 1. Engineering, Design and Construction (ED&C) Plan (7) Variable Rate 2. Contingency (8) Variable Rate 3. Insurance (9)	\$1,000,000 8% <= \$500,000 10% 1.5%	<= \$25,000,000 6% <= \$5,000,000 8% of labor costs of the O&M costs if	<= <= \$50,000,000 6%	\$25,000,000 4% \$50,000,000	Small Plan
Administrative Cost Rates (%) 1. Engineering, Design and Construction (ED&C) Plan (7) Variable Rate 2. Contingency (8) Variable Rate 3. Insurance (9) 4. Bond (10)	\$1,000,000 8% <= \$500,000 10% 1.5% 3.0%	<= \$25,000,000 6% <= \$5,000,000 8% of labor costs of the O&M costs if	<= <= \$50,000,000 6%	\$25,000,000 4% \$50,000,000	Small Plan
Administrative Cost Rates (%) 1. Engineering, Design and Construction (ED&C) Plan (7) Variable Rate 2. Contingency (8) Variable Rate 3. Insurance (9) 4. Bond (10)	\$1,000,000 8% <= \$500,000 1.5% 3.0% 10%	<= \$25,000,000 6% <= \$5,000,000 8% of labor costs of the O&M costs if of the O&M costs <= \$600,000	<= <= \$50,000,000 6% O&M costs are >\$100,000	\$25,000,000 4% \$ \$50,000,000 4%	Small Plan
Administrative Cost Rates (%) 1. Engineering, Design and Construction (ED&C) Plan (7) Variable Rate 2. Contingency (8) Variable Rate 3. Insurance (9) 4. Bond (10) 5. Contractor Profit (11)	\$1,000,000 8% <= \$500,000 10% 1.5% 3.0% 10%	<= \$25,000,000 6% <= \$5,000,000 8% of labor costs of the O&M costs if of the O&M costs	<= <= \$50,000,000 6% O&M costs are >\$100,000	> \$25,000,000 4% > \$50,000,000 4% > \$50,000,000	Small Plat

RECLAMATION COST ESTIMATION SUMMARY SHEET FOOTNOTES

- NOTE:

 1. Federal construction contracts require Davis-Bacon wage rates for contracts over \$2,000. Wage rate estimates may include base pay, payroll loading, overhead

 2. The reclamation cost estimate must include the estimated plugging cost of at least one drill hole for each active drill rig in the project area. Where the submitted

 3. Miscellaneous items should be itemized on accompanying worksheets.

 4. Fluid management should be calculated only when mineral processing activities are involved. Fluid management represents the costs of maintaining proper fluid

 5. Handling of hazardous materials includes the cost of decontaminating, neutralizing, disposing, treating and/or isolating all hazardous materials used, produced, or

 6. Any mitigation measures required in the Plan of Operations must be included in the reclamation cost estimate. Mitigation may include measures to avoid,

- 10. Any inlingation measures required in the Flatination Operations intox be included in the reclamation tools estimate. Mingation may include measures to a volut, 7. Engineering, design and construction (ED&C) plans are often necessary to provide details on the reclamation needed to contract for the required work. To 8. A contingency cost is included in the reclamation cost estimation to cover unforeseen cost elements. Calculate the contingency cost as a percentage of the O&M 9. Insurance premiums are calculated at 1.5% of the total labor costs. Enter the premium amount if liability insurance is not included in the itemized unit costs. 10. Federal construction contracts exceeding \$100,000 require both a performance and a payment bond (Miller Act, 40 USC 270et seq.). Each bond premium is 11. For Federal construction contracts, use 10% of estimated O&M cost for the contractor's profit. 12. To estimate the contract administration cost, use 6 to 10% of the operational and maintenance (O&M) cost. Calculate the contract administration cost as a

Closure Cost Estimate Other User

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Other User Costs				
			Materials &	
	Labor	Equipment	Capital	Totals
Other Cost Items	\$0	\$0	\$0	\$0

Closure Cost Estimate Reclamation Quantities

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm Model Version: Version 1.4.1

Data Cost File: SRCE_Cost_data-USR_1_12.xlsm Cost Data: User Data

Re	clamation Quantity Sumr	Unit Costs															
	Description	Total Regrade or Haul Volume	Total Regrade or Haul Cost	Total Cover Volume CV	Cover Placement Cost	Total Growth Media Volume	Growth Media Placement Cost	Total Surface Area acres	Total Scarify Cost	Total Revetation Cost	TOTALS	Regrade Unit Cost \$/CY	Material Haul or Backfill Unit Cost \$/CY	Cover Unit Cost \$/CY	Growth Media Unit Cost \$/CY	Scarify Unit Cost \$/CY	Area Unit Cost \$/acre
1	Waste Rock Dumps	219,000 \$	32,618	- Cy	5 -	- Cy	\$ -	762.17	\$ 118,987	\$ 444,537	\$ 596,142	\$0.15		ΨΙΟΙ	Ψ/Ο1	\$156.12	\$782.16
2	Tailings Impoundments	\$	-		\$ -		\$ -		\$ -	\$ -	\$ -		N/A				
	Heap Leach Pads	\$	-		\$ -		\$ -		\$ -	\$ -	\$ -		N/A				
5	Open Pits	\$	-							\$ -	\$ -		N/A	300000000000000000000000000000000000000		0.000	
	Quarries & Borrow Pits	\$	-		\$ -		\$ -		\$ -		\$ -		N/A				
	Roads	64,701 \$	65,237				\$ -	126.37	\$ 33,949	\$ 73,707	\$ 172,893	\$1.01	N/A			\$268.65	\$1,368.15
	Landfills	\$	-		\$ -		\$ -		\$ -	\$ -	\$ -		N/A				
	Buildings			70,198	\$ 116,703	29,251	\$ 63,659	18.9	\$ 17,940	\$ 15,640	\$ 213,942		N/A	\$1.66	\$2.18	\$949.21	\$11,319.68
9	Yards	116,950 \$	218,219	248,453	\$ 385,111		\$ -	2493	\$ 758,946	\$ 1,454,043	\$ 2,816,319	\$1.87	N/A	\$1.55		\$304.43	\$1,129.69
	Ponds	\$	-				\$ -			\$ -	\$	N/A					
	Exploration Roads	\$	-				\$ -		\$ -	\$ -	\$ -		N/A				
	Exploration Trenches	\$	-							\$ -	\$ -		N/A				100000000
	Diversion Ditches	\$	17,213					13.5		\$ 7,874	\$ 25,087		N/A				\$1,858.30
	Sediment Ponds	24,665 \$	13,785	8,875			\$ 10,130	5.5			\$ 29,425	\$0.56	\$0.64			\$418.18	\$5,350.00
	Generic Haulage/Backfill	\$	-	;	\$ -		\$ -		\$ -	\$ -	\$ -	N/A				10000000000	1000000000
	Adit/Decline Backfilling1	\$	-								\$ -	N/A					100000000000000000000000000000000000000
17	Shaft Backfilling	\$	-								\$ -	N/A					100000000000000000000000000000000000000
\vdash	TOTALS Average Costs	425,316 \$	347,072 \$0.82	327,526 :	\$ 501,814 \$1.53	29,251 per CY	\$ 73,789 \$2.52	3,419.44	\$ 932,122 \$272.59		\$ 3,853,808 \$1,127	per acre					

Closure Cost Estimate Exploration

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Exploration - Cost Summary				
	Labor	Equipment	Materials	Totals
Hole Abandonment Costs	\$0	\$0	\$0	\$0
Trench Backfilling Costs	\$0	\$0		\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Trench Revegetation Costs	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Closure Cost Estimate Expl. Roads & Pads

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Exploration Roads & Pads - Cost Summary											
	Labor	Equipment	Materials	Totals							
Grading Costs	\$0	\$0	N/A	\$0							
Cover Placement Cost	\$0	\$0	N/A	\$0							
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0							
Subtotal Earthworks	\$0	\$0		\$0							
Revegetation Cost	\$0	\$0	\$0	\$0							
TOTALS	\$0	\$0	\$0	\$0							

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022
File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Waste Rock Dumps - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$6,445	\$26,173	N/A	\$32,618
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$23,509	\$95,478	N/A	\$118,987
Subtotal Earthworks	\$29,954	\$121,651	\$0	\$151,605
Revegetation Cost	\$106,704	\$38,109	\$299,724	\$444,537
TOTALS	\$136,658	\$159,760	\$299,724	\$596,142

Was	aste Rock Dumps - User Input You must fill in ALL green cells in this section for each dump, lift or dump category																			
	Facility Description						Phys	sical - MAND	ATORY					C	over			Growth Media		
	Description (required)	ID Code	Туре	Underlying Ground Slope % Grade	Ungraded Slope _H:1V	Final Slope _H:1V	Final Top Slope % Grade	Lift (dump) Height ft	Mid-Bench Length ft	Average Flat Area Long Dimension (ripping distance)	Final (Regraded) Dump Footprint acres	Regrade Volume (1) (if calculated elsewhere)	Cover Thickness Slopes in	Cover Thickness Flat Areas in	Distance from Cover Borrow ft	Slope from Dump to Cover Borrow % grade	Slope Growth Media Thickness in	Flat Area Growth Media Thickness in	Distance from Growth Media Stockpile ft	Slope from Dump to Stockpile % grade
-1	WDE		Wasta Back Dump	10.0	2.0	2.0	1.0	1.025	6.750	6.750	725.00	240000								

Notes:

- 1. All Physical parameters must be input even if manual overrides for volume or area are used.
- 2. If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet)
- 3. Flat tops and benches regraded, scarfied and seeded. Regrading assumed to be 1/3 flat areas and average 1 foot depth to provide proper drainage (219,000 cubic yards).
- 4. Sloped areas seeded; no regrading or scarifying.

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022
File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12.xlsm
Cost Estimate Type: Surety
Cost Basis: Southern Nevada - Adjusted for Arizona

Waste Rock Dumps - Cost Summary				
-	Labor	Equipment	Materials	Totals
Grading Costs	\$6,445	\$26,173	N/A	\$32,618
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$23,509	\$95,478	N/A	\$118,987
Subtotal Earthworks	\$29,954	\$121,651	\$0	\$151,605
Revegetation Cost	\$106,704	\$38,109	\$299,724	\$444,537
TOTALS	\$136,658	\$159,760	\$299,724	\$596,142

Was	Waste Rock Dumps - User Input (cont.) You must fill in ALL green cells and relevant blue cells in this section for each dump, lift or dump category																	
		Grad	ing		Cover Growth Media Revegetation													
	Description (required)	Regrading Material Condition (select)	Regrading Material Type (select)	Regrading Equipment Fleet (select)	Slot/Side-by- Side (select)	Cover Material Type (select)	Cover Placement Equipment Fleet (select)	Growth Media Material Type (select)	Growth Media Equipment Fleet (select)	Seed Mix Slopes (select)	Seed Mix Flat Areas (select)	Mulch Slopes (select)	Mulch Flat Areas (select)	Fertilizer Slopes (select)	Fertilizer Flat Areas (select)	Slope Scarify/ Rip? (select)	Flat Area Scarify/ Rip? (select)	Scarify/ Ripping Fleet (select)
1 WRF 1 LS-broken Large Yes				Yes					Mix 4	Mix 4	None	None	None	None	No	Yes	Large Doz	

Notes:

1. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

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Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022
File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

5/4/2022

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Basis: Southern Nevada - Adjusted for Arizona Cost Estimate Type: Surety

	Labor	Equipment	Materials	Totals
Grading Costs	\$6,445	\$26,173	N/A	\$32,618
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$23,509	\$95,478	N/A	\$118,987
Subtotal Earthworks	\$29,954	\$121,651	\$0	\$151,605
Revegetation Cost	\$106,704	\$38,109	\$299,724	\$444,537
TOTALS	\$136,658	\$159.760	\$299.724	\$596,142

Waste Rock Dumps - Calculations Final Slope Area and Footprint Area Calculations **Regrading Volume Calculation** S_T (Top Slope) Final slope length = c₁ + c₂ Final slope area = Final slope length x Mid-bench Length Final lift height (h_{final}) = (c₁ + c₂) x sin(Final slope) Final slope width (d) = (c₁ + c₂) x cos(Final slope) Final slope footprint = Final slope width x Mid-bench Length h_{fnal} (Final Lift Height) h (Lift Height) Final flat area = Final footprint - Final slope footprint Cut-to-Fill pivot point Cut-to-Fill pivot point S_∩ (Underlying Figure 3 - Final Slope Area and Footprint Area Calculation Figure 1 - Regrace Volume Calculation Regrading Push Distance Calculation Ripping/Scarifying Calculations dozing distance: based on 2/3 final cut slope + 2/3 final fill slope (minimum = 50 ft) Minimum 1 hr ripping/scarifying time per dump Top Slope Number of passes = Final slope length + Grader width Travel distance = Number of passes x Mid-bench length Total hours = (Travel distance + Grader productivity) + (Number of passes x Grader maneuver time) Minimum 1 hr Dozing distance = $\frac{2}{3}(c_1 + c_2)$ Dozing Flat Areas: Flat area width = Final flat area ÷ Average long dimensions Number of passes = Flat area width + Grader width Travel distance = Number of passes x Average long dimensions Cut-to-Fill pivot point Total hours = (Travel distance + Grader productivity) + (Number of passes x Grader maneuver time) Revegetation: Minimum 1 acre revegetation crew time per area

Page 13 of 131 Waste Rock Dumps

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022
File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12.xlsm
Cost Estimate Type: Surety
Cost Basis: Southern Nevada - Adjusted for Arizona

Waste Rock Dumps - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$6,445	\$26,173	N/A	\$32,618
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$23,509	\$95,478	N/A	\$118,987
Subtotal Earthworks	\$29,954	\$121,651	\$0	\$151,605
Revegetation Cost	\$106,704	\$38,109	\$299,724	\$444,537
TOTALS	\$136,658	\$159,760	\$299,724	\$596,142



Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022
File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12.xlsm
Cost Estimate Type: Surety
Cost Basis: Southern Nevada - Adjusted for Arizona

·	Labor	Equipment	Materials	Totals
Grading Costs	\$6,445	\$26,173	N/A	\$32,618
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$23,509	\$95,478	N/A	\$118,987
Subtotal Earthworks	\$29,954	\$121,651	\$0	\$151,605
Revegetation Cost	\$106,704	\$38,109	\$299,724	\$444,537
TOTALS	\$136,658	\$159,760	\$299,724	\$596,142

Wast	te Rock Dumps - Regrading Costs													
Produ	Productivity = Dozer Productivity x Grade Correction x Density Correction x Operator (0.75) x Material x Visibility x Job Efficiency (0.83) x (Slot/Side-by-Side) x (Altitude Deration)													
	Description (required)	Regrading Volume cy	Dozing Distance (see above) ft	Regrading Fleet	cy/hr	Grade Correction	Dozing Material	Density Correction	Side-by-Side or Slot Dozing	Total Hourly Productivity cy/hr	Total Dozer Hours hr	Total Labor Cost \$	Total Equipment Cost \$	Total Regrading Cost \$
1	WRF	219,000	50	D10R	2,934	1.6	1.0	0.88	1.2	3,086	71	\$6,445	\$26,173	\$32,618
		219,000									71	\$6,445	\$26,173	\$32,618

Waste Rock Dumps - Cover and Growth Media Costs																	
			Cover (lower layer)										Growth Me	dia Placeme	ent		
	Description (required)	Cover Volume cy	Cover Replacement Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Cover Labor Cost \$	Cover Equipment Cost	Total Cover Cost	Growth Media Volume cy	Growth Media Replacement Fleet	Fleet Productivity BCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost \$	Total Equipment Cost \$	Total Growth Media Cost \$
1	WRF						\$0	\$0	\$0						\$0	\$0	\$0
,							\$0	\$0	\$0						\$0	\$0	\$0

Was	Waste Rock Dumps - Scarifying/Revegetation Costs															
	Description (required)	Slope Area acres	Flat Area acres	Total Surface Area acres	Final Slope Length ft	Flat Area Long Dimension	Ripping/ Scarifying Fleet	Slope Scarifying/ Ripping Hours hrs	Flat Area Scarifying/ Ripping Hours hrs	Scarifying/ Ripping Labor Costs \$	Scarifying/ Ripping Equipment Cost	Total Scarifying/ Ripping Costs \$	Revegetation Labor Cost	Revegetation Equipment Cost	Revgetation Material Cost	Total Revegetation Cost
1	WRF	355.17	407.00	762.17	2,292	6,750	D10R		259	\$23,509	\$95,478	\$118,987	\$106,704	\$38,109	\$299,724	\$444,537
355.17 407.00 762.17									259	\$23,509	\$95,478	\$118,987	\$106,704	\$38,109	\$299,724	\$444,537

Notes: 1) Minimum total ripping hours = 1 (i.e. If total ripping hrs (slope + flat) < 1, then one hour of fleet time is assumed, regardless of acres shown in in scarifying table.) 2) Assumes 50min/hr equipment availability

Closure Cost Estimate Heap Leach

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Heap Leach Pads - Cost Summary				
	Labor	Equipment	Materials	Totals
Drain Installation	\$0	\$0	\$0	\$0
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Bond Calculation Tailings

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

	Labor	Equipment	Materials	Totals
Embankment Regrading Cost	\$0	\$0	N/A	\$(
Tailings Surface Grading Cost	\$0	\$0	N/A	\$(
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Roads - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$12,889	\$52,348	N/A	\$65,237
Cover Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$7,806	\$26,143	N/A	\$33,949
Subtotal Earthworks	\$20,695	\$78,491		\$99,186
Revegetation Cost	\$17,692	\$6,320	\$49,695	\$73,707
TOTALS	\$38,387	\$84,811	\$49,695	\$172,893

R	loads	- User Input			You must fill in ALL green cells and relevant blue cells in this section for each road										
		Facility Description					Physical (1) -	MANDATORY			User O	verrides	Growth Media		
		Description (required)	ID Code	Туре	Underlying Ground Slope % grade	Ungraded Slope H:1V	Cut Slope	Road Width	Road Length	Slope Replacement Percent	Regrade Volume (if calculated elsewhere)	Disturbed Area (if calculated elsewhere) acres	Growth Media Thickness in	Haul Distance from Growth Media Stockpile	Slope from Road to Stockpile % grade
	1 M a	ain Haul Road to Rosemont Pit		Haul Road	20.0	1.0	70.0	94.0	18,734	20%					
	2 Sp	pur haul roads to other pits		Haul Road	20.0	1.0	70.0	94.0	2,063	20%					
	3 Uti	tility Corridor Access Road - pipe corridor		Access Road	5.0	1.0	70.0	30.0	63,888	20%					
Г	4 Uti	tility Corridor Miscelaneous Areas		Access Road	5.0	1.0	70.0	50.0	23.000	20%					

Notes:

- 1. All Physical parameters must be input even if manual overrides for volume or area are used.
- 2. If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet)
- 3. Because the work required for building roads with a dozer is similar to that required to regrade a road with a dozer, this sheet could be used to provide a rough estimate of road construction costs if a dozer is selected as the grading fleet.
- 4. Assumes graded road material vegetated in place without need for growth media
- 5. Utility corridor miscellaneous areas include road spurs, pump stations, power pole pads, and plant site switch yard/sub station. (Total utility corridor reclamation = 73 acres)

Roa	ds - User Input (cont.)					
			Haul	Road Safety B	erms	
	Description (required)	Berm Length	Berm Height	Berm Base Width	Berm Sideslope Angle	Number of Berms (2) (1 or 2 sides)
1	Main Hauf Road to Rosemont Pit	3.015.0	6.0	12.0	_H:1V	1
2	Spur haul roads to other pits	8,527.0	6.0	12.0	1.0	1
3	Utility Corridor Access Road - pipe corridor	0.0	0.0	0.0	0.0	
4	Utility Corridor Miscelaneous Areas	0.0	0.0	0.0	0.0	

(2) Enter 1 if berm on only one side of road, 2 if both sides of road are bermed.

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Roads - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$12,889	\$52,348	N/A	\$65,237
Cover Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$7,806	\$26,143	N/A	\$33,949
Subtotal Earthworks	\$20,695	\$78,491		\$99,186
Revegetation Cost	\$17,692	\$6,320	\$49,695	\$73,707
TOTALS	\$38,387	\$84,811	\$49,695	\$172,893

Roa	oads - User Input (cont.) You must fill in ALL green cells and relevant blue cells in this section for each road												
		Grading			Growth Media			Revegetation					
	Description (required)	Regrading Material Condition (select)	Regrading Material Type (select)	Regrading Equipment Fleet (select)	No. of Excavators if grade >30% (select)	Growth Media Material Type (select)	Cover Placement Equipment Fleet (select)	Maximum Fleet Size (user override)	Seed Mix (select)	Mulch (select)	Fertilizer (select)	Scarifying/ Ripping? (select)	Ripping Fleet (select)
1	Main Haul Road to Rosemont Pit	1	Alluvium	Lg Dozer					Mix 4	None	None	Yes	Large Dozer
2	Spur haul roads to other pits	1	Alluvium	Lg Dozer					Mix 4	None	None	Yes	Large Dozer
3	Utility Corridor Access Road - pipe corridor	1	Alluvium	Lg Dozer					Mix 4	None	None	Yes	Med Dozer
4	Utility Corridor Miscelaneous Areas	1	Alluvium	Lg Dozer					Mix 4	None	None	Yes	Med Dozer

Notes:

- 1. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table
- 2. If original slope >30% only excavators are allowed.

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Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

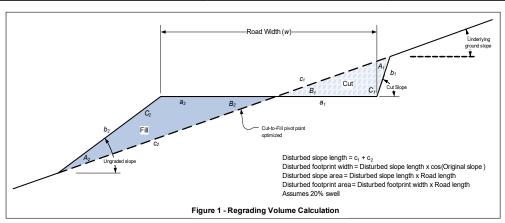
Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Roads - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$12,889	\$52,348	N/A	\$65,237
Cover Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$7,806	\$26,143	N/A	\$33,949
Subtotal Earthworks	\$20,695	\$78,491		\$99,186
Revegetation Cost	\$17,692	\$6,320	\$49,695	\$73,707
TOTALS	\$38,387	\$84,811	\$49,695	\$172,893

Roads - Calculations

Regrading Volume and Footprint Volume



Will not allow dozer for slopes greater than 30% For dozer regrading push distance = road width Assumes dozer push is uphill Assumes minimum push distance of 100 ft

Ripping/Scarifying Calculations

Minimum 1 hr ripping/scarifying time per area

Number of passes = Final slope length ÷ Grader width

Travel distance = Number of passes x Road length

Total hours = (Travel distance + Grader productivity) + (Number of passes x Grader maneuver time)

For dozer regrading assumes push distance = 3 x road width

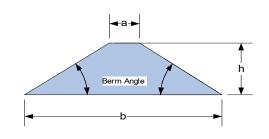
Revegetation Calculations

Minimum of 1 acre crew time per area

Safety Berm Volume Calculation

Cross Sectional Area = $\frac{(a+b)}{2} \times h$

Berm Volume = Berm Length x Cross Sectional Area x No . Sides



Total berm volume doubled if both sides of road are bermed.

If length of berm on each side of road is different, input total length of both berms and input 1 for number of sides

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Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm
Cost Estimate Type: Surety
Cost Basis: Southern Nevada - Adjusted for Arizona Cost Estimate Type: Surety

Roads - Cost Summary					
		Labor	Equipment	Materials	Totals
Grading Costs		\$12,889	\$52,348	N/A	\$65,237
Cover Placement Cost		\$0	\$0	N/A	\$0
Ripping/Scarifying Cost		\$7,806	\$26,143	N/A	\$33,949
Sub	ototal Earthworks	\$20,695	\$78,491		\$99,186
Revegetation Cost		\$17,692	\$6,320	\$49,695	\$73,707
	TOTALS	\$38,387	\$84,811	\$49,695	\$172,893

5/4/2022

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Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm
Cost Estimate Type: Surety
Cost Basis: Southern Nevada - Adjusted for Arizona Cost Estimate Type: Surety

Roads - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$12,889	\$52,348	N/A	\$65,237
Cover Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$7,806	\$26,143	N/A	\$33,949
Subtotal Earthworks	\$20,695	\$78,491		\$99,186
Revegetation Cost	\$17,692	\$6,320	\$49,695	\$73,707
TOTALS	\$38,387	\$84,811	\$49,695	\$172,893

Roa	ds - Regrading Costs										
	Description (required)	Regrading Volume	Recontouring Fleet	Fleet Productivity cy/hr	Total Fleet Hours	Total Labor Cost	Total Equipment Cost	Total Regrading Cost			
1	Main Haul Road to Rosemont Pit	43,007	D10R	441	98	\$8,895	\$36,127	\$45,022			
2	Spur haul roads to other pits	15,662	D10R	441	36	\$3,268	\$13,271	\$16,539			
3	Utility Corridor Access Road - pipe corridor	3,017	D10R	716	4	\$363	\$1,475	\$1,838			
4	Utility Corridor Miscelaneous Areas	3,015	D10R	716	4	\$363	\$1,475	\$1,838			
		64,701			142	\$12,889	\$52,348	\$65,237			

Road	ls - Growth Media Costs									
	Description (required)	Growth Media Volume	Growth Media Replacement Fleet	Fleet Productivity	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost \$	Total Equipment Cost \$	Total Growth Media Cost \$	
1	Main Haul Road to Rosemont Pit						\$0	\$0	\$0	
2	Spur haul roads to other pits						\$0	\$0	\$0	
3	Utility Corridor Access Road - pipe corridor						\$0	\$0	\$0	
4	Utility Corridor Miscelaneous Areas						\$0	\$0	\$0	
							\$0	\$0	\$0	

Road	oads - Scarifying/Revegetation Costs											
	Description (required)	Total Surface Area acres	Final Slope Length	Ripping/ Scarifying Fleet	Ripping Hours	Ripping Labor Costs	Ripping Equipment Cost	Total Ripping Costs	Revegetation Labor Cost	Revegetation Equipment Cost	Revgetation Material Cost	Total Revegetation Cost
1	Main Haul Road to Rosemont Pit	48.03	112.0	D10R	25	\$2,269	\$9,216	\$11,485	\$6,724	\$2,402	\$18,888	\$28,014
2	Spur haul roads to other pits	5.29	112.0	D10R	3	\$272	\$1,106	\$1,378	\$741	\$265	\$2,080	\$3,086
3	Utility Corridor Access Road - pipe corridor	45.66	31.0	D9R	36	\$3,268	\$9,820	\$13,088	\$6,392	\$2,283	\$17,956	\$26,631
4	Utility Corridor Miscelaneous Areas	27.39	52.0	D9R	22	\$1,997	\$6,001	\$7,998	\$3,835	\$1,370	\$10,771	\$15,976
		126.37			86	\$7,806	\$26,143	\$33,949	\$17,692	\$6,320	\$49,695	\$73,707

Closure Cost Estimate Pits

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Pits - Cost Summary											
	Labor	Equipment	Materials	Totals							
Safety Berm Construction Cost	\$0	\$0	N/A	\$0							
Safety Berm Revegetation Cost	\$0	\$0	\$0	\$0							
TOTALS	\$0	\$0	\$0	\$0							

Closure Cost Estimate Quarries & Borrow Pits

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$
Cover Placement Cost	\$0	\$0	N/A	\$
Topsoil Placement Cost	\$0	\$0	N/A	\$
Ripping/Scarifying Cost		\$0	N/A	\$
Safety Berm Construction Cost	\$0	\$0	N/A	\$
Subtotal Earthwo	rk \$0	\$0	\$0	\$
Revegetation Cost	\$0	\$0	\$0	\$
Safety Berm Revegetation Cost	\$0	\$0	\$0	\$
	\$0	\$0	\$0	\$
TOTAL	S \$0	\$0	\$0	\$

Closure Cost Estimate Underground Openings

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Underground Openings Cost Summary											
	Labor	Equipment	Materials	Totals							
Adits, Portals & Declines Plugging	\$0	\$0	\$0	\$0							
Shaft Backfill/Cover	\$0	\$0	N/A	\$0							
Shaft Capping	\$0	\$0	\$0	\$0							
TOTALS	\$0	\$0	\$0	\$0							

Closure Cost Estimate Haul Material

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm
Model Version: Version 1.4.1
Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm
Cost Estimate Type: Surety

Cost Basis: Southern Nevada - Adjusted for Arizona

	Labor	Equipment	Materials	Totals
Hauling/Crush/Screen/Compact	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	Si Si

Closure Cost Estimate Foundations & Buildings

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan
Date of Submittal: May 3, 2022
File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12.xlsm
Cost Estimate Type: Surety

Cost Basis: Southern Nevada - Adjusted for Arizona

Buildings & Foundation Demolition Cost Summary						
	Labor	Equipment	Materials	Totals		
Building Demolition Cost	\$5,096,577	\$2,998,279	N/A	\$8,094,856		
Wall Demolition Cost	\$1,654,444	\$136,160	N/A	\$1,790,604		
Slab Demolition	\$43,545	\$151,554.	N/A	\$195,099		
Subtotal Demolition	\$6,794,566	\$3,285,993	\$0	\$10,080,559		
Cover Placement Cost	\$34,947	\$81,756	N/A	\$116,703		
Growth Media Placement Cost	\$19,070	\$44,589	N/A	\$63,659		
Ripping/Scarifying Cost	\$3,549	\$14,391	N/A	\$17,940		
Subtotal Earthworks	\$57,566	\$140,736	\$0	\$198,302		
Revegetation Cost	\$6,048	\$2,160	\$7,432	\$15,640		
TOTALS	\$6,858,180	\$3,428,889	\$7,432	\$10,294,501		

Buildings & Foundation - User Input You must fill in ALL green cells and relevant blue cells in this section for each building or facility																	
Facility Description			Physical - MANDATORY							Foundation Cover (1)			Growth Media (1) (entire footprint)				
	Description (required)	ID Code	Туре	Length ft	Width ft	Eve Height ft	Slab Thickness	Foundation Wall Thickness in	Foundation Wall Height ft	Average Flat Area Long Dimension (ripping distance) ft	Building Area Footprint (including surrounding facilities) acres	Foundation Cover Thickness in	Distance from Foundation Cover Borrow Area ft	Slope from Facility to Borrow Area % grade	Growth Media Thickness in	Distance from Growth Media Stockpile ft	Slope from Facility to Stockpile % grade
- 1	Field Office		Site Facilities - Buildings	57	57	12	6	0	0	57	0.09	36	500	5.0	12	500	5.0
2	Gatehouse		Site Facilities - Buildings	19	19	12	6	0	0	19	0.01	36	500	5.0	12	500	5.0
3	Administration/Mine Offices		Site Facilities - Buildings	101	101	12	6	0	0	101	0.29	36	500	5.0	12	500	5.0
4	Change House		Site Facilities - Buildings	57	57	12	6	0	0	57	0.09	36	500	5.0	12	500	5.0
5	Laboratory		Site Facilities - Buildings	57	57	12	6	0	0	57	0.09	36	500	5.0	12	500	5.0
6	Main Warehouse		Site Facilities - Buildings	141	141	30	12	6	3	141	0.57	36	500	5.0	12	500	5.0
7	Plant Maintenance		Site Facilities - Buildings	78	78	20	12	6	3	78	0.17	36	500	5.0	12	500	5.0
- 8	Plant Offices/Change House		Site Facilities - Buildings	78	78	20	12	0	0	78	0.17	36	500	5.0	12	500	5.0
9	Truck Shop		Site Facilities - Buildings	195	195	60	12	6	3	195	1.09	36	500	5.0	12	500	5.0
10	Truck Wash		Site Facilities - Buildings	95	95	60	12	6	3	95	0.26	36	500	5.0	12	500	5.0
	Fresh/Fire Water Tank		Other Facilities	20	20	20	12	0	0	20	0.01	36	500	5.0	12	500	5.0
12	Potable Water Tank		Other Facilities	20	20	20	12	0	0	20	0.01	36	500	5.0	12	500	5.0
13	Blasting Magazine		Site Facilities - Buildings	21	21	16	6	6	8	21	0.01	36	500	5.0	12	500	5.0
14	Oxide Primary Crusher		Process - Crushing & Screening	85	85	60	12	12	3	85	0.21	36	500	5.0	12	500	5.0
15	Oxide Secondary Crusher		Process - Crushing & Screening	65	65	40	12	12	3	65	0.12	36	500	5.0	12	500	5.0
16	Oxide Conveyor Transfer Point/Agglomerator		Process - Other	30	30	40	12	6	3	30	0.03	36	500	5.0	12	500	5.0
17	Sulfide Primary Crusher		Process - Crushing & Screening	89	89	60	12	12	3	89	0.23	36	500	5.0	12	500	5.0
18	Sulfide Grinding Circuit (SAG /Ball Mills/Pebble Crusher)		Process - Crushing & Screening	198	198	100	12	6	3	198	1.13	36	500	5.0	12	500	5.0
19	Copper Flotation		Process - Plant & Buildings	145	145	30	12	6	3	145	0.60	36	500	5.0	12	500	5.0
20	Molybdenum (Moly) Flotation		Process - Plant & Buildings	65	65	30	12		3	65	0.12	36	500	5.0	12	500	5.0
21	Reagent Storage (flotation)		Process - Plant & Buildings	84	84	30	12	6	3	84	0.20	36	500	5.0	12	500	5.0
22	Bulk Cu/Mo Thickener		Process - Other	92 204	92 204	30	12	12	10 3	92	0.24	36 36	500	5.0 5.0	12	500	5.0
23	Copper Concentrate Thickening, Filtering and Loadout		Process - Other		204	30	12			204	1.19		500		12	500	5.0
24	Tailings Thickener (2 thickeners) Flocculant Plant (tailings)		Process - Other Process - Plant & Buildings	207 31	31	30	12	12 6	10 3	207 31	0.03	36 36	500 500	5.0 5.0	12 12	500 500	5.0 5.0
26	Albion Process Acid Leach		Process - Plant & Buildings Process - Plant & Buildings	145	145	30	12	6	3	145	0.60	36	500	5.0	12	500	5.0
27	Albion Process Acid Leach Albion Process Fine Grinding		Process - Plant & Buildings Process - Crushing & Screenin	84	84	30	12	6	3	84	0.60	36	500	5.0	12	500	5.0
28	Albion Process Fine Grinding Albion Process Iron Control		Process - Crushing & Screening Process - Plant & Buildings	118	118	10	12	6	3	118	0.20	36	500	5.0	12	500	5.0
29	Albion Process Iron Control Albion Process Desulfurization and Burner		Process - Plant & Buildings Process - Plant & Buildings	118	118	30	12	6	3	118	0.40	36	500	5.0	12	500	5.0
30	Albion Process Desulturization and Burner Albion Process Iron Control and Sulfur Filtration		Process - Plant & Buildings Process - Plant & Buildings	84	84	30	12	6	3	84	0.40	36	500	5.0	12	500	5.0
31	Flocculant Plant (Albion Plant)		Process - Plant & Buildings Process - Plant & Buildings	31	31	30	12	6	3	31	0.20	36	500	5.0	12	500	5.0
32	Solvent Extraction Plant		Process - Plant & Buildings Process - Plant & Buildings	276	276	30	12	6	3	276	2.19	36	500	5.0	12	500	5.0
33	Electrowinning Plant (Albion)		Process - Plant & Buildings Process - Plant & Buildings	219	219	30	12	6	3	219	1.38	36	500	5.0	12	500	5.0
34	Electrowinning Plant (Albion)		Process - Plant & Buildings Process - Plant & Buildings	219	219	30	12	6	3	219	1.38	36	500	5.0	12	500	5.0
35	SX-EW Reagent Storage (2 areas)		Process - Plant & Buildings	105	105	30	12	6	3	105	0.32	36	500	5.0	12	500	5.0
36	Limestone Grinding Plant/Lime Plant	1	Process - Plant & Buildings Process - Crushing & Screening	31	31	30	12	6	3	31	0.03	36	500	5.0	12	500	5.0
37	Gold-Silver Leach Plant		Process - Plant & Buildings	84	84	30	12	6	3	84	0.20	36	500	5.0	12	500	5.0
38	Acid Plant		Process - Plant & Buildings	300	300	40	12	6	3	300	2.58	36	500	5.0	12	500	5.0
39	Oxygen Plant (2 plants)		Process - Other	20	20	30	12	6	3	20	0.01	36	500	5.0	12	500	5.0
40						- 20	·-	,			2.01	30	-50	2.0	·	- 200	
41																	-
42																	
43																	
44																	
							•										

Notes:

1. Foundation cover only calculated to cover slab. Growth media estimated over entire footprint area

2. If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet)

3. Growth media assumed stockpiled adjacent to plant site area.

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Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022
File Name: Rosemont RP21 MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12.xlsm
Cost Eata File: SRCE_Cost_data-USR_1_52.xlsm
Cost Eata File: SRCE_Cost_data-USR_52.xlsm
Cost Eata File: SRCE_Cost_data-USR_52.xlsm

Buildings & Foundation Demolition Cost Summary				
	Labor	Equipment	Materials	Totals
Building Demolition Cost	\$5,096,577	\$2,998,279	N/A	\$8,094,856
Wall Demolition Cost	\$1,654,444	\$136,160	N/A	\$1,790,604
Slab Demolition	\$43,545	\$151,554	N/A	\$195,099
Subtotal Demolition	\$6,794,566	\$3,285,993	\$0	\$10,080,559
Cover Placement Cost	\$34,947	\$81,756	N/A	\$116,703
Growth Media Placement Cost	\$19,070	\$44,589	N/A	\$63,659
Ripping/Scarifying Cost	\$3,549	\$14,391	N/A	\$17,940
Subtotal Earthworks	\$57,566	\$140,736	\$0	\$198,302
Revegetation Cost	\$6,048	\$2,160	\$7,432	\$15,640
TOTALS	\$6,858,180	\$3,428,889	\$7,432	\$10,294,501

		Const	ruction Materials	Slab D	emolition	Fo	undation Cov	er		Growth Media	1		Revegetation			
	Description (required)	Building Type	Foundation Wall Type	Slab Demo Method	Slab Breaking Equipment Fleet	Cover Material Type	Cover Placement Equipment Fleet	Maximum Fleet Size	Growth Media Material Type	Growth Media Placement Equipment Fleet	Maximum Fleet Size	Seed Mix	Mulch	Fertilizer	Scarify/ Rip?	Ripping
_	m) 11 &/m	(select)	(select)	(select)	(select)	(select)	(select)	(user override)	(select)	(select)	(user override)	(select)	(select)	(select)	(select)	(sele
	Field Office	Sm. steel	Conc 6 in (150 mm) thick		Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Large
	Gatehouse	Sm. steel			Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Large
	Administration/Mine Offices	Sm. steel			Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	Change House	Sm. steel	Conc 6 in (150 mm) thick		Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	Laboratory.	Sm. steel			Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	Main Warehouse	Lg. steel	Conc 6 in (150 mm) thick		Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	Plant Maintenance	Lg. steel			Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	Plant Offices/Change House	Lg. steel			Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	Truck Shop	Lg. steel			Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	Truck Wash	Lg. steel			Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	Fresh/Fire Water Tank	Sm. steel			Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
I	Potable Water Tank	Sm. steel	Conc 12 in (300 mm) thick	Break & bury	Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
1	Blasting Magazine	Sm. concrete	Conc 6 in (150 mm) thick	Break & bury	Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
П	Oxide Primary Crusher	Lg. steel	Conc 6 in (150 mm) thick	Break & bury	Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
П	Oxide Secondary Crusher	Lg. steel	Conc 6 in (150 mm) thick	Break & bury	Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	Oxide Conveyor Transfer Point/Agglomerator	Lg. steel	Conc 6 in (150 mm) thick	Break & bury	Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	Sulfide Primary Crusher	Lg. steel	Conc 6 in (150 mm) thick	Break & bury	Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
1	Sulfide Grinding Circuit (SAG /Ball Mills/Pebble Crusher)	Lg. steel			Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	Copper Flotation	Lg. steel	Conc 6 in (150 mm) thick		Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	Molybdenum (Moly) Flotation	La. steel			Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	Reagent Storage (flotation)	Lg. steel			Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	Bulk Cu/Mo Thickener	La. concrete			Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	Copper Concentrate Thickening, Filtering and Loadout	La. concrete			Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	Tailings Thickener (2 thickeners)	La. concrete			Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	Flocculant Plant (tailings)	Sm. steel			Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	Albion Process Acid Leach				Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
		Lg. steel				Alluvium			Alluvium			Mix 4	None	None	Yes	
	Albion Process Fine Grinding	Lg. steel	Conc 6 in (150 mm) thick		Lg Excavator		Large Truck			Large Truck						Larg
	Albion Process Iron Control	Sm. steel	Conc 6 in (150 mm) thick		Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	Albion Process Desulfurization and Burner	Lg. steel			Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	Albion Process Iron Control and Sulfur Filtration	Lg. steel			Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	Flocculant Plant (Albion Plant)	Lg. steel			Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	Solvent Extraction Plant	Lg. steel	Conc 6 in (150 mm) thick		Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	Electrowinning Plant (Albion)	Lg. steel	Conc 6 in (150 mm) thick		Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	Electrowinning Plant (Oxide)	Lg. steel			Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	SX-EW Reagent Storage (2 areas)	Lg. steel	Conc 6 in (150 mm) thick		Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	Limestone Grinding Plant/Lime Plant	Lg. steel			Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
	Gold-Silver Leach Plant	Lg. steel	Conc 6 in (150 mm) thick		Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
Т	Acid Plant	Lg. steel	Conc 6 in (150 mm) thick	Break & bury	Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
7	Oxygen Plant (2 plants)	Lg. steel	Conc 6 in (150 mm) thick	Break & bury	Lg Excavator	Alluvium	Large Truck		Alluvium	Large Truck		Mix 4	None	None	Yes	Larg
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Notes:

1. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

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Page 28 of 131 Foundations & Buildings Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1 Cost Data: User Data Cost Data File: SRCE_Cost_data-USR_1_12.xlsm Cost Estimate Type: Surety Cost Basis: Southern N Buildings & Foundation Demolition Cost Summary	evada - Adju	isted for Arizona		
Dananigo a i ounadaon Domondon Goot Gammary	Labor	Equipment	Materials	Totals
Building Demolition Cost	\$5,096,577	\$2,998,279	N/A	\$8,094,856
Wall Demolition Cost	\$1,654,444	\$136,160	N/A	\$1,790,604
Slab Demolition	\$43,545	\$151,554.	N/A	\$195,099
Subtotal Demolition	\$6,794,566	\$3,285,993	\$0	\$10,080,559
Cover Placement Cost	\$34,947	\$81,756	N/A	\$116,703
Growth Media Placement Cost	\$19,070	\$44,589	N/A	\$63,659
Ripping/Scarifying Cost	\$3,549	\$14,391	N/A	\$17,940
Subtotal Earthworks	\$57,566	\$140,736	\$0	\$198,302
Revegetation Cost	\$6,048	\$2,160	\$7,432	\$15,640
TOTALS	\$6,858,180	\$3,428,889	\$7,432	\$10,294,501

Buildings & Foundation - Calculations

Building Volume Calculations

Using Means Heavy Construction Cost Data (2004) calculates cubic feet from building dimensions

Estimage slab thickness and wall thickness if not known Assumes that all concrete slabs are reinforced

Productivity for crew from Means Heavy Construction Cost Data (2004) adjusted for supervision (addressed in Misc. Costs) and Davis-Bacon Wage Rates

Demolition costs do not include hauling or disposing if debris - Use Waste Disposal module

Slab Demolition Calculations

Minimum 1 hr excavator time for slab demolition

Cover Volume Calculation

Foundation area x cover thickness

Il "Bury in Place" is selected as slab demolition method, cover thickness is adjusted such that total cover (cover + growth media) equals value entered in "Minimum thickness of cover over unbroken slab" cell above

Ripping/Scarifying Calculations

Flat area width = Final flat area + Average long dimensions Number of passes = Flat area width + Grader width

Travel distance = Number of passes x Average long dimensions
Total hours = (Travel distance + Grader productivity) + (Number of passes x Grader maneuver time)

Minimum 1 acre revegetation crew time per area

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Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022
File Name: Rosemont RP21 MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12.xlsm
Cost Eata File: SRCE_Cost_data-USR_1_52.xlsm
Cost Eata File: SRCE_Cost_data-USR_52.xlsm
Cost Eata File: SRCE_Cost_data-USR_52.xlsm

	Labor	Equipment	Materials	Totals
Building Demolition Cost	\$5,096,577	\$2,998,279	N/A	\$8,094,856
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Slab Demolition	\$43,545	\$151,554.	N/A	\$195,099
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Ripping/Scarifying Cost	\$3,549	\$14,391	N/A	\$17,940
Subtotal Earthworks	\$57,566	\$140,736	\$0	\$198,302
Revegetation Cost	\$6,048	\$2,160	\$7,432	\$15,640
TOTALS	\$6,858,180	\$3,428,889	\$7,432	\$10,294,501

							Buil	ding Demoliti	on	Wa	II Demolition		SI	ab Demolitio	n		Total Costs	
Description (required)	Building Footprint (slab area)	Building Volume	Wall Length	Wall Area	Slab Demolition Fleet	Slab Volume	Total Labor Cost	Total Equipment Cost	Total Building Demolition Cost	Total Labor Cost	Total Equipment Cost	Total Wall Demolition Cost	Total Labor Cost	Total Equipment Cost	Total Slab Breaking Cost	Total Labor Cost	Total Equipment Cost	Tot Demoi Cos
Field Office	3.249	38.988	228	99 K	385BL	····:60:····	\$10.527	\$5:458	\$15,985		:-:-::so:	····so:	\$181	\$630	-:-:-::::::::::::::::::::::::::::::::::	\$10,708	\$6,088	· · · · · · · · · · · · · · · · · · ·
Gatehouse	361	4,332	76	0	385BL	7	\$1,170	\$606	\$1,776	\$0	\$0	\$0	\$181	\$630	\$811	\$1,351	\$1,236	*******
Administration/Mine Offices	10.201	122,412	404	0	385BL	189	\$33,051	\$17,138	\$50,189	\$0	\$0	\$0	\$344	\$1.197	\$1,541	\$33,395	\$18,335	
Change House	3.249	38,988	228	0	385BL	60	\$10.527	\$5,458	\$15,985	\$0	\$0		\$181	\$630	\$811	\$10,708	\$6,088	
Laboratory	3.249	38,988	228	0	385BL	60	\$10.527	\$5,458	\$15,985	\$0	\$0	\$0	\$181	\$630	\$811	\$10,708	\$6,088	
Main Warehouse	19.881	596,430	564	1,692	385BL	736	\$131,215	\$77,536	\$208.751	\$45,633	\$3.756	\$49,389	\$1,339	\$4.661	\$6,000	\$178,187	\$85,953	S
Plant Maintenance	6.084	121,680	312	936	385BL	225	\$26,770	\$15.818	\$42.588	\$25,244	\$2.078	\$27,322	\$416	\$1.449	\$1,865	\$52,430	\$19.345	· · · · · ·
Plant Offices/Change House	6.084	121,680	312	0	385BL	225	\$26,770	\$15,818	\$42,588	\$25,244	\$0	\$0	\$416	\$1,449	\$1,865	\$27,186	\$17,267	
Truck Shop	38.025	2.281.500	780	2.340	385BL	1.408	\$501.930	\$296.595	\$798.525	\$63,110	\$5,195	\$68.305	\$2.570	\$8,944	\$11.514	\$567.610	\$310.734	S
Truck Wash	9.025	541.500	380	1,140	385BL	334	\$119.130	\$70.395	\$189,525	\$30,746	\$2,531	\$33,277	\$615	\$2,142	\$2,757	\$150.491	\$75.068	S
Fresh/Fire Water Tank	9,025	8.000	80	1,140	385BL	334 15	\$119,130	\$1,120	\$189,525	\$30,746	\$2,531	\$33,277	\$181	\$2,142	\$2,757	\$150,491	\$1,750	
	400	8,000	80		385BL	15		\$1,120 \$1,120	\$3,280	\$0	\$0. \$0		\$181 \$181	\$630	\$811		\$1,750	
				0			\$2,160					\$0				\$2,341		
Blasting Magazine	441	7,056	84	672	385BL	8	\$2,470	\$1,270	\$3,740	\$18,124	\$1,492	\$19,616	\$181	\$630	\$811	\$20,775	\$3,392	
Oxide Primary Crusher	7,225	433,500	340	1,020	385BL	268	\$95,370	\$56,355	\$151,725	\$27,509	\$2,264	\$29,773	\$489	\$1,701	\$2,190	\$123,368	\$60,320	
Oxide Secondary Crusher	4,225	169,000	260	780	385BL	156	\$37,180	\$21,970	\$59,150	\$21,037	\$1,732	\$22,769	\$290	\$1,008	\$1,298	\$58,507	\$24,710	00000
Oxide Conveyor Transfer Point/Agglomerator	900	36,000	120	360	385BL	33	\$7,920	\$4,680	\$12,600	\$9,709	\$799	\$10,508	\$181	\$630	\$811	\$17,810	\$6,109	000000
Sulfide Primary Crusher	7,921	475,260	356	1,068	385BL	293	\$104,557	\$61,784	\$166,341	\$28,804	\$2,371	\$31,175	\$543	\$1,890	\$2,433	\$133,904	\$66,045	
Sulfide Grinding Circuit (SAG /Ball Mills/Pebble Crusher)	39,204	3,920,400	792	2,376	385BL	1,452	\$862,488	\$509,652	\$1,372,140	\$64,081	\$5,275	\$69,356	\$2,660	\$9,259	\$11,919	\$929,229	\$524,186	\$1
Copper Flotation	21,025	630,750	580	1,740	385BL	779	\$138,765	\$81,998	\$220,763	\$46,928	\$3,863	\$50,791	\$1,430	\$4,976	\$6,406	\$187,123	\$90,837	\$
Molybdenum (Moly) Flotation	4,225	126,750	260	780	385BL	156	\$27,885	\$16,478	\$44,363	\$21,037	\$1,732	\$22,769	\$290	\$1,008	\$1,298	\$49,212	\$19,218	
Reagent Storage (flotation)	7,056	211,680	336	1,008	385BL	261	\$46,570	\$27,518	\$74,088	\$27,186	\$2,238	\$29,424	\$471	\$1,638	\$2,109	\$74,227	\$31,394	0000
Bulk Cu/Mo Thickener	8,464	253,920	368	3,680	385BL	313	\$78,715	\$45,706	\$124,421	\$158,792	\$13,064	\$171,856	\$579	\$2,016	\$2,595	\$238,086	\$60,786	
Copper Concentrate Thickening, Filtering and Loadout	41,616	1,248,480	816	2,448	385BL	1,541	\$387,029	\$224,726	\$611,755	\$105,631	\$8,690	\$114,321	\$2,823	\$9,826	\$12,649	\$495,483	\$243,242	S
Tailings Thickener (2 thickeners)	42,849	.0	828	8,280	385BL	1,587	\$0	\$0	\$0	\$357,282	\$29,394	\$386,676	\$2,896	\$10,078	\$12,974	\$360,178	\$39,472	
Flocculant Plant (tailings)	961	28,830	124	372	385BL	36	\$7,784	\$4.036	\$11,820	\$10,033	\$826	\$10,859	\$181	\$630	\$811	\$17,998	\$5,492	10000
Albion Process Acid Leach	21.025	630.750	580	1.740	385BL	779	\$138,765	\$81,998	\$220,763	\$46,928	\$3.863	\$50,791	\$1,430	\$4,976	\$6,406	\$187,123	\$90.837	
Albien Process Fine Grinding	7.056	211.680	336	1.008	385BL	261	\$46.570	\$27.518	\$74,088	\$27,186	\$2,238	\$29,424	\$471	\$1,638	\$2,109	\$74.227	\$31,394	
Albion Process Iron Control	13.924	139:240	472	1.416	385BL	516	\$37,595	\$19,494	\$57,089	\$38,190	\$3,144	\$41,334	\$941	\$3,275	\$4,216	\$76,726	\$25,913	
Albion Process Desulfurization and Burner	13.924	417.720	472	1.416	385BI	516	\$91,898	\$54,304	\$146,202	\$38,190	\$3,144	\$41,334	\$941	\$3,275	\$4,216	\$131,029	\$60,723	
Albion Process Iron Control and Sulfur Filtration	7.056	211.680	336	1.008	385BL	261	\$46.570	\$27,518	\$74.088	\$27,186	\$2,238	\$29,424	\$471	\$1.638	\$2,109	\$74.227	\$31,394	
Flocculant Plant (Albion Plant)	961	28.830	124	372	385BL	36	\$6,343	\$3.748	\$10,091	\$10.033	\$826	\$10.859	\$181	\$630	\$811	\$16.557	\$5,204	
Solvent Extraction Plant	76.176	2.285,280	1.104	3.312	385BL	2.821	\$502.762	\$297.086	\$799.848	\$89,325	\$7,353	\$96,678	\$5,158	\$17,952	\$23,110	\$597,245	\$322,391	
Electrowinning Plant (Albion)	47.961	1,438,830	876	2,628	385BL	1.776	\$316,543	\$187,048	\$503,591	\$70,877	\$5,834	\$76,711	\$3,239	\$17,952	\$14,514	\$390,659	\$204,157	
Electrowinning Plant (Albion) Electrowinning Plant (Oxide)	47,961	1,438,830	876	2,028	385BL	1,776	\$316,543	\$187,048	\$503,591	\$70,877	\$5,834	\$76,711	\$3,239	\$11,275	\$14,514	\$390,659	\$204,157	
	,	330,750	420	1.260		408		\$42,998	\$115,763	\$33.982	\$2,797	\$36,779	\$742	\$2,583	\$3,325	\$107,489	\$48,378	
SX-EW Reagent Storage (2 areas) Limestone Grinding Plant/Lime Plant	11,025 961	28.830	124	372	385BL 385BL	36	\$72,765 \$6,343	\$3,748	\$10.091	\$10.033	\$826	\$10.859	\$142	\$2,563	\$3,325	\$107,469	\$5,204	-
													\$181 \$471					
Gold-Silver Leach Plant Acid Plant	7,056	211,680 3,600,000	336	1,008 3,600	385BL	261	\$46,570	\$27,518 \$468,000	\$74,088	\$27,186 \$97,092	\$2,238 \$7,992	\$29,424 \$105,084	\$6.099	\$1,638 \$21,227	\$2,109	\$74,227	\$31,394	
			1,200		385BL	3,333	\$792,000		\$1,260,000		\$7,992				\$27,326	\$895,191	\$497,219 \$2,723	\$1
Oxygen Plant (2 plants)	400	12,000	80	240	385BL	15	\$2,640	\$1,560	\$4,200	\$6,473		\$7,006	\$181	\$630	\$811	\$9,294		
	50000000000	000000000000000000	340000000000000000000000000000000000000		400000000000000000000000000000000000000	00000000000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	000000000000000000000000000000000000000		4000000000		400000000	100000000000000000000000000000000000000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
							\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
					4		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	100000000000000000000000000000000000000		40000000000		000000000000	100000000000000000000000000000000000000	SO SO	\$0	\$0	\$0	\$0	\$0	\$0	SO.	\$0	\$0	\$0	100000

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022
File Name: Rosemont RP21 MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12.xlsm
Cost Eata File: SRCE_Cost_data-USR_1_52.xlsm
Cost Eata File: SRCE_Cost_data-USR_52.xlsm
Cost Eata File: SRCE_Cost_data-USR_52.xlsm

	Labor	Equipment	Materials	Totals
Building Demolition Cost	\$5,096,577	\$2,998,279	N/A	\$8,094,856
Wall Demolition Cost	\$1,654,444	\$136,160	N/A	\$1,790,604
Slab Demolition	\$43,545	\$151,554.	N/A	\$195,099
Subtotal Demolition	\$6,794,566	\$3,285,993	\$0	\$10,080,559
Cover Placement Cost	\$34,947	\$81,756	N/A	\$116,703
Growth Media Placement Cost	\$19,070	\$44,589	N/A	\$63,659
Ripping/Scarifying Cost	\$3,549	\$14,391	N/A	\$17,940
Subtotal Earthworks	\$57,566	\$140,736	\$0	\$198,302
Revegetation Cost	\$6,048	\$2,160	\$7,432	\$15,640
TOTALS.	\$6,858,180	\$3,428,889	\$7,432	\$10,294,501

				Foundation Co	over							Growth	Media				Total Cover	& Growth M	ledia Costs
Description (required)	Cover Volume	Cover Repacement Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost	Total Equipment Cost	Total Cover Cost	Growth Media Volume	Growth Media Repacement Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost	Total Equipment Cost	Total Growth Media Cost	Total Labor Cost	Total Equipment Cost	Total Costs
1 Field Office	361	769D/988G/D7R	684		00000400000	\$318	\$743	\$1.061	150	769D/988G/D7R	684		00000000000	\$318	\$743	\$1,061	\$636	\$1.486	\$2,12
2 Gatehouse	40	769D/988G/D7R	684	2	1	\$318	\$743	\$1,061	17	769D/988G/D7R	684	2	4	\$318	\$743	\$1.061	\$636	\$1,486	
Administration/Mine Offices	1-133	769D/968G/D7R	684	9	2	\$635	\$1,487	\$2,122	472	769D/988G/D7R	684	9	0000000000	\$318	\$743	\$1,061	\$953	\$2,230	
Change House	361	769D/988G/D7R	684	2	4	\$318	\$743	\$1.061	150	769D/988G/D7R	684	2	1	\$318	\$743	\$1,061	\$636	\$1,486	
Laboratory	361	769D/988G/D7R	684	2	******	\$318	\$743	\$1,061	150	769D/988G/D7R	684	2		\$318	\$743	\$1,061	\$636	\$1,486	
Main Warehouse	2.209	769D/988G/D7R	684	2	3	\$953	\$2,230	\$3,183	920	769D/988G/D7R	684	2		\$318	\$743	\$1.061	\$1,271	\$2,973	
Plant Maintenance	676	769D/988G/D7R	684	2	000000000000	\$318	\$743	\$1,061	282	769D/988G/D7R	684	2	0.0000000000000000000000000000000000000	\$318	\$743	\$1.061	\$636	\$1,486	\$2.12
Plant Offices/Change House	676	769D/988G/D7R	684	2	4	\$318	\$743	\$1.061	282	769D/988G/D7R	684	2	100000	\$318	\$743	\$1,061	\$636	\$1,486	
Truck Shop	4,225	769D/988G/D7R	684	2	6	\$1,906	\$4,460	\$6,366	1,760	769D/988G/D7R	684	2	3	\$953	\$2,230	\$3,183	\$2,859	\$6,690	
0 Truck Wash	1,003	769D/988G/D7R	684	2	4	\$318	\$743	\$1,061	418	769D/988G/D7R	684	2	1	\$318	\$743	\$1,061	\$636	\$1,486	
1 Fresh/Fire Water Tank	44	769D/988G/D7R	684	2	1	\$318	\$743	\$1,061	19	769D/988G/D7R	684	2	0.000	\$318	\$743	\$1,061	\$636	\$1,486	
2 Potable Water Tank	44	769D/988G/D7R	684	2	4	\$318	\$743	\$1.061	19	769D/988G/D7R	684	2	10000	\$318	\$743	\$1,061	\$636	\$1,486	
3 Blasting Magazine	49	769D/988G/D7R	684	2	4	\$318	\$743	\$1,061	20	769D/988G/D7R	684	2	0000000000	\$318	\$743	\$1,061	\$636	\$1,486	
4 Oxide Primary Crusher	803	769D/988G/D7R	684	2	4000	\$318	\$743	\$1,061	334	769D/988G/D7R	684	2	10000	\$318	\$743	\$1.061	\$636	\$1,486	\$2,12
5 Oxide Secondary Crusher	469	769D/988G/D7R	684	2	10000	\$318	\$743	\$1,061	196	769D/988G/D7R	684	2		\$318	\$743	\$1.061	\$636	\$1,486	
6 Oxide Conveyor Transfer Point/Agglomerator	100	769D/988G/D7R	684	2	1	\$318	\$743	\$1,061	42	769D/988G/D7R	684	2	1	\$318	\$743	\$1,061	\$636	\$1,486	
7 Sulfide Primary Crusher	880	769D/988G/D7R	684	2	1	\$318	\$743	\$1,061	367	769D/988G/D7R	684	2	100000	\$318	\$743	\$1,061	\$636	\$1,486	\$2,12
8 Sulfide Grinding Circuit (SAG /Ball Mills/Pebble Crusher)	4:356	769D/988G/D7R	684	2	6	\$1:906	\$4,460	\$6,366	1.815	769D/988G/D7R	684	2	3	\$953	\$2,230	\$3,183	\$2.859	\$6,690	\$9.549
9 Copper Flotation	2.336	769D/988G/D7R	684	2	3	\$953	\$2,230	\$3,183	973	769D/988G/D7R	684	2	0.0000000000000000000000000000000000000	\$318	\$743	\$1.061	\$1,271	\$2,973	\$4.24
0 Molybdenum (Moly) Flotation	469	769D/988G/D7R	684	2	4.00	\$318	\$743	\$1.061	196	769D/988G/D7R	684	2	0.0000100000	\$318	\$743	\$1,061	\$636	\$1,486	
1 Readent Storage (flotation)	784	769D/988G/D7R	684	2	00000400000	\$318	\$743	\$1.061	327	769D/988G/D7R	684	2	100000400000	\$318	\$743	\$1.061	\$636	\$1,486	\$2,12
2 Bulk Cu/Mo Thickener	940	769D/988G/D7R	684	2	1	\$318	\$743	\$1,061	392	769D/988G/D7R	684	2	1	\$318	\$743	\$1,061	\$636	\$1,486	\$2,12
3 Copper Concentrate Thickening, Filtering and Loadout	4.624	769D/988G/D7R	684	2	7	\$2,223	\$5,203	\$7.426	1.927	769D/988G/D7R	684	2	3	\$953	\$2,230	\$3,183	\$3,176	\$7,433	
4 Tailings Thickener (2 thickeners)	4.761	769D/988G/D7R	684	2	7	\$2,223	\$5,203	\$7,426	1,984	769D/988G/D7R	684	2	3	\$953	\$2,230	\$3,183	\$3,176	\$7,433	\$10,609
5 Flocculant Plant (tailings)	107	769D/988G/D7R	684	2	4	\$318	\$743	\$1,061	-44	769D/988G/D7R	684	2	0.0000000000000000000000000000000000000	\$318	\$743	\$1,061	\$636	\$1,486	
6 Albion Process Acid Leach	2,336	769D/988G/D7R	684	2	3	\$953	\$2,230	\$3,183	973	769D/988G/D7R	684	2	1	\$318	\$743	\$1,061	\$1,271	\$2,973	
7 Albien Process Fine Grinding	784	769D/988G/D7R	684	2	1	\$318	\$743	\$1,061	327	769D/988G/D7R	684	2	1.000	\$318	\$743	\$1,061	\$636	\$1,486	\$2,12
8 Albion Process Iron Control	1,547	769D/988G/D7R	684	2	2	\$635	\$1,487	\$2,122	645	769D/988G/D7R	684	2	1	\$318	\$743	\$1,061	\$953	\$2,230	\$3,183
9 Albion Process Desulfurization and Burner	1.547	769D/988G/D7R	684	2	2	\$635	\$1,487	\$2,122	645	769D/988G/D7R	684	2	and the property	\$318	\$743	\$1.061	\$953	\$2,230	
0 Albion Process Iron Control and Sulfur Filtration	784	769D/988G/D7R	684	2	1	\$318	\$743	\$1,061	327	769D/988G/D7R	684	2		\$318	\$743	\$1.061	\$636	\$1,486	\$2,12
1 Flocculant Plant (Albion Plant)	107	769D/988G/D7R	684	2	1000010000	\$318	\$743	\$1,061	44	769D/988G/D7R	684	2	0.0000100000	\$318	\$743	\$1,061	\$636	\$1,486	
2 Solvent Extraction Plant	8,464	769D/988G/D7R	684	2	12	\$3,812	\$8,919	\$12,731	3,527	769D/988G/D7R	684	2	5	\$1,588	\$3,716	\$5,304	\$5,400	\$12,635	
3 Electrowinning Plant (Albion)	5,329	769D/988G/D7R	684	2	8	\$2,541	\$5,946	\$8,487	2,220	769D/988G/D7R	684	2	3	\$953	\$2,230	\$3,183	\$3,494	\$8,176	\$11,670
4 Electrowinning Plant (Oxide)	5,329	769D/988G/D7R	684	2	8	\$2,541	\$5,946	\$8,487	2,220	769D/988G/D7R	684	2	3	\$953	\$2,230	\$3,183	\$3,494	\$8,176	\$11,670
5 SX-EW Reagent Storage (2 areas)	1,225	769D/988G/D7R	684	2	2	\$635	\$1,487	\$2,122	510	769D/988G/D7R	684	2	1	\$318	\$743	\$1,061	\$953	\$2,230	\$3,18
6 Limestone Grinding Plant/Lime Plant	107	769D/988G/D7R	684	2	4	\$318	\$743	\$1,061	44	769D/988G/D7R	684	2	4.00	\$318	\$743	\$1,061	\$636	\$1,486	
7 Gold-Silver Leach Plant	784	769D/988G/D7R	684	2	4000	\$318	\$743	\$1,061	327	769D/988G/D7R	684	2	0.0000000000000000000000000000000000000	\$318	\$743	\$1,061	\$636	\$1,486	
8 Acid Plant	10,000	769D/988G/D7R	684	2	15	\$4,764	\$11,149	\$15,913	4,167	769D/988G/D7R	684	2	6	\$1,906	\$4,460	\$6,366	\$6,670	\$15,609	\$22,27
9 Oxygen Plant (2 plants)	44	769D/988G/D7R	684	2	10001000	\$318	\$743	\$1,061	19	769D/988G/D7R	684	2	1000010000	\$318	\$743	\$1,061	\$636	\$1,486	\$2,12
0 1400000000000000000000000000000000000						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	
1 0000000000000000000000000000000000000	100000000000000000000000000000000000000					\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$0
2						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	SI
3						\$0	\$0	\$0						\$0	\$0	\$0	\$0	\$0	\$1
4 (4) (4) (4) (4) (4) (4) (4) (4) (4) (4						\$0	\$0	\$0				40.000		\$0	\$0	\$0	\$0	\$0	
	70.198				110	\$34,947	\$81,756	\$116,703	29.251				60	\$19.070	\$44,589	\$63,659	\$54.017	\$126,345	\$180.36

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022
File Name: Rosemont RP21 MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12.xlsm
Cost Eata File: SRCE_Cost_data-USR_1_52.xlsm
Cost Eata File: SRCE_Cost_data-USR_52.xlsm
Cost Eata File: SRCE_Cost_data-USR_52.xlsm

Buildings & Foundation Demolition Cost Summary				
	Labor	Equipment	Materials	Totals
Building Demolition Cost	\$5,096,577	\$2,998,279	N/A	\$8,094,856
Wall Demolition Cost	\$1,654,444	\$136,160	N/A	\$1,790,604
Slab Demolition	\$43,545	\$151,554	N/A	\$195,099
Subtotal Demolition	\$6,794,566	\$3,285,993	\$0	\$10,080,559
Cover Placement Cost	\$34,947	\$81,756	N/A	\$116,703
Growth Media Placement Cost	\$19,070	\$44,589	N/A	\$63,659
Ripping/Scarifying Cost	\$3,549	\$14,391	N/A	\$17,940
Subtotal Earthworks	\$57,566	\$140,736	\$0	\$198,302
Revegetation Cost	\$6,048	\$2,160	\$7,432	\$15,640
TOTALS	\$6,858,180	\$3,428,889	\$7,432	\$10,294,501

						rifying/Rippin	g		Reve	getation		Tot	al Scarify & Re	evegation Co	sts
	Description (required)	Flat Area	Ripping/ Scarifying Fleet	Scarifying/ Ripping Hours hrs	Scarifying/ Ripping Labor Costs	Scarifying/ Ripping Equipment Cost	Total Scarifying/ Ripping Costs	Revegetation Labor Cost	Revegetation Equipment Cost	Revgetation Material Cost	Total Revegetation	Total Labor Cost	Total Equipment Cost	Total Material Cost	Total Costs
1	Field Office	0:10	D10R	000040000	\$91	\$369	\$460	\$14D	\$50	\$39	\$229	\$231	\$419	\$39	\$6
	Gatehouse	0.10	D10R	1000	\$91	\$369	\$460	\$140	\$50	\$39	\$229	\$231	\$419	\$39	\$6
	Administration/Mine Offices	0.30	D10R		\$91	\$369	\$460	\$140	\$50	\$118	\$308	\$231	\$419	\$118	S
	Change House	0.10	D10R		\$91	\$369	\$460	\$140	\$50	\$39	\$229	\$231	\$419	\$39	S
	Laboratory	0.10	D10R		\$91	\$369	\$460	\$140	\$50	\$39	\$229	\$231	\$419	\$39	\$
	Main Warehouse	0.60	D10R	1000	\$91	\$369	\$460	\$140	\$50	\$236	\$426	\$231	\$419	\$236	\$
	Plant Maintenance	0.20	D10R	4	\$91	\$369	\$460	\$140	\$50	\$79	\$269	\$231	\$419	\$79	S
	Plant Offices/Change House	0.20	D10R		\$91	\$369	\$460	\$140	\$50	\$79	\$269	\$231	\$419	\$79	Š
	Truck Shop	1.10	D10R	1	\$91	\$369	\$460	\$154	\$55	\$433	\$642	\$245	\$424	\$433	S1.
	Truck Wash	0.30	D10R	1	\$91	\$369	\$460	\$140	\$50	\$118	\$308	\$231	\$419	\$118	9
	Fresh/Fire Water Tank	0.10	D10R	1	\$91	\$369	\$460	\$140	\$50		\$229	\$231	\$419	\$39	
	Potable Water Tank	0.10	D10R		\$91	\$369	\$460	\$140	\$50	\$39	\$229	\$231	\$419	\$39	
	Blasting Magazine	0.10	D10R	1	\$91	\$369	\$460	\$140	\$50	\$39	\$229	\$231	\$419	\$39	
	Oxide Primary Crusher	0.20	D10R	1000	\$91	\$369	\$460	\$140	\$50	\$79	\$269	\$231	\$419	\$79	
	Oxide Secondary Crusher	0.10	D10R		\$91	\$369	\$460	\$140	\$50	\$39	\$229	\$231	\$419	\$39	
	Oxide Conveyor Transfer Point/Agglomerator	0.10	D10R		\$91	\$369	\$460	\$140	\$50	\$39	\$229	\$231	\$419	\$39	
	Sulfide Primary Crusher	0.20	D10R	1	\$91	\$369	\$460	\$140	\$50	\$79	\$269	\$231	\$419	\$79	
	Sulfide Grinding Circuit (SAG /Ball Mills/Pebble Crusher)	1.10	D10R	1000	\$91	\$369	\$460	\$154	\$55	\$433	\$642	\$245	\$424	\$433	S
	Copper Flotation	0.60	D10R	4	\$91	\$369	\$460	\$140	\$50	\$236	\$426	\$231	\$419	\$236	***************************************
	Molybdenum (Moly) Flotation	0.10	D10R	1	\$91	\$369	\$460	\$140	\$50	\$39	\$229	\$231	\$419	\$39	
	Reagent Storage (flotation)	0.20	D10R	1	\$91	\$369	\$460	\$140	\$50	\$79	\$269	\$231	\$419	\$79	
	Bulk Cu/Mo Thickener	0.20	D10R	1	\$91	\$369	\$460	\$140	\$50	\$79	\$269	\$231	\$419	\$79	
	Copper Concentrate Thickening, Filtering and Loadout	1.20	D10R		\$91	\$369	\$460	\$168	\$60	\$472	\$700	\$259	\$429	\$472	S
	Tailings Thickener (2 thickeners)	1.20	D10R	1	\$91	\$369	\$460	\$168	\$60	\$472	\$700	\$259	\$429	\$472	
	Flocculant Plant (tailings)	0.10	D10R		\$91	\$369	\$460	\$140	\$50	\$39	\$229	\$231	\$419	\$39	
	Albion Process Acid Leach	0.60	D10R	4	\$91	\$369	\$460	\$140	\$50 \$50	\$236	\$426	\$231	\$419	\$236	
	Albion Process Acid Leach	0.20	D10R		\$91	\$369	\$460	\$140	\$50	\$79	\$269	\$231	\$419	\$230	
	Albion Process Frite Grinding Albion Process Iron Control	0.40	D10R	4	\$91	\$369	\$460	\$140	\$50	\$157	\$347	\$231	\$419	\$157	
	Albion Process Iron Condon	0.40	D10R		\$91	\$369	\$460	\$140	\$50	\$157	\$347	\$231	\$419	\$157	
	Albion Process Desururization and Burner Albion Process Iron Control and Sulfur Filtration	0.40	D10R	1	\$91 \$91	\$369	\$460	\$140	\$50 \$50	\$79	\$269	\$231	\$419	\$157	
	Flocculant Plant (Albion Plant)	0.20	D10R	4	\$91	\$369	\$460	\$140	\$50	\$39	\$209	\$231	\$419	\$39	
	Solvent Extraction Plant	2.20	D10R		\$91	\$369	\$460	\$308	\$110	\$865	\$1,283	\$399	\$479	\$865	s
	Solvent Extraction Plant Electrowinning Plant (Albion)	1.40	D10R D10R		\$91 \$91	\$369	\$460 \$460	\$308 \$196	\$110 \$70	\$865 \$551	\$1,283	\$399 \$287	\$479	\$865 \$551	S
	Electrowinning Plant (Albion)	1.40	D10R	4	\$91 \$91	\$369	\$460 \$460	\$196	\$70	\$551	\$817	\$287	\$439	\$551 \$551	\$
	SX-EW Reagent Storage (2 areas)	0.30	D10R	4	\$91	\$369	\$460	\$140	\$50	\$118	\$308	\$231	\$419	\$118	
	Limestone Grinding Plant/Lime Plant	0.10	D10R		\$91	\$369	\$460	\$140	\$50 \$50	\$39	\$229	\$231	\$419	\$118	
	Gold-Silver Leach Plant	0.20	D10R		\$91	\$369	\$460	\$140	\$50	\$79	\$269	\$231	\$419	\$39	
	Acid Plant	2.60	D10R	1	\$91	\$369	\$460 \$460	\$364	\$130	\$1,022	\$209 \$1,516	\$455	\$499	\$1,022	S
	Oxygen Plant (2 plants)	0.10	D10R	1	\$91	\$369	\$460	\$140	\$50	\$1,022	\$229	\$231	\$419	\$1,022	
,	Oxygon riant (2 plants)	0.10	5.00		\$0	\$309	\$400	\$0	\$30 \$0	\$0	\$229	\$231	\$419	\$0	/////////////////////////////////////
1					\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	(200000
2					\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0		\$0 \$0	\$0	\$0	\$0 \$0	
					\$0	\$0	\$0 \$0	\$0 \$0	\$0		\$0	\$0.	\$0	\$0 \$0	
3					\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	anana
4		18.90		39	\$3,549	\$14.391	\$17,940	\$6,048	\$2,160		\$0 \$15,640	\$9.597	\$16,551	\$0 \$7,432	\$33

Closure Cost Estimate Other Demo & Equip Removal

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Other Demoltion and Equipment Removal - Cost Summary				
	Labor	Equipment	Materials	Totals
Other Demolition	\$82,472	\$78,560	\$18,428	\$179,460
Equipment Removal	\$0	\$0	\$0	\$0
TOTALS	\$82,472	\$78,560	\$18,428	\$179,460

Othe	er Demolition								
	Facility Description								
	Description (required)	ID Code	Туре	Quantity	Units	Labor Unit Cost \$	Equipment Unit Cost \$	Material Unit Cost \$	Total Cost \$
1	Removal of FWDS Pump Station #1 and #2		Site Facilities - Buildings	2	EA	\$30,849.60	\$27,038.80	\$5,000.00	\$125,777
2	Abandon Tailings Pipeline In Place		Site Facilities - Structures	1	LS	\$20,773.20	\$24,482.00	\$8,428.00	\$53,683
						\$82,472	\$78,560	\$18,428	\$179,460

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Notes: 1. Pump station demolition assumes Demo Crews B-3 and medium concrete breaking crew for 40 hours for each pump station.

- 2. 24-inch diameter tailings pipeline under BLM property (~1700 linear feet) abandoned in place and filled with grout 3. Grout cost at \$42.14/cy. Total of ~200 cy required.
- 4. Assume B22A pipe crew and Grout Crew for 40 hour for pipeline abandonment.
- 5. Scarifying and seeding disturbed areas covered under other items.

Closure Cost Estimate Sediment & Drainage Control

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

ainage Control - Cost Summary				
	Labor	Equipment	Materials	Totals
Diversion Ditch Construction	\$4,690	\$12,523	N/A	\$17,213
Diversion Ditch Liner	\$0	\$0	\$0	\$0
Diversion Ditch Rip-Rap	\$231,526	\$43,187	\$128,128	\$402,841
Sed Pond Construct/Regrade	\$2,725	\$11,060	N/A	\$13,785
Liner Installation	\$0	\$0	\$0	\$0
Sed Pond Cover	\$2,715	\$7,415	N/A	\$10,130
Ripping/Scarifying Cost	\$455	\$1,845	N/A	\$2,300
Subtotal Earthworks	\$242,111	\$76,030	\$128,128	\$446,269
Diversion Ditch Revegetation	\$1,890	\$675	\$5,309	\$7,874
Sediment Pond Revegetation	\$770	\$275	\$2,165	\$3,210
Subtotal Revegetation	\$2,660	\$950	\$7,474	\$11,084
TOTALS	\$244,771	\$76,980	\$135,602	\$457,353

Di	version Ditches - User Input															
Diversions Ditches								Revegetation	1		Liner and Rip-Rap Installation					
	Description (required)	ID Code	Diversion Length ft	Diversion Depth ft	Ditch Bottom Width	Ditch Sideslope Angle _H:1V	Excavate Volume (if calculated elsewhere) cy	Excavating Material Condition (select)	Excavating Equipment Fleet (select)	Seed Mix (select)	Mulch (select)	Fertilizer (select)	Liner Area S.Y.	Liner Type (select)	Rip-Rap Area S.Y.	Rip-Rap Type (select type)
1	Stormwater Ditch - no riprap		24000	3.0	6.0	2.0		1	Large	Mix 4	None	None	0		0	
2	Stormwater Ditch - rip rap lined		6350	3.0	6.0	2.0		1	Large	Mix 4	None	None	0		8,960	Gabions, 12 in (3

- Stormwater ditches and ponds for waste rock and plant site areas
- Riprap assumes bottom and sides of ditch covered
 Diversion ditches for areas not included in APP

Sec	diment/Evaporation Pond Construction/Ren	noval - Use	er Input										
						Sedimen	t Ponds				ĺ	Growth Media	
	Description (required)	ID Code	Pond Width ft	Pond/Berm Length ft	Berm Height ft	Crest Width ft	Sideslope Angle _H:1V	Final Area (if calculated elsewhere) acres	Regrade Volume (if calculated elsewhere)	Cover Volume (if calculated elsewhere)	Growth Media Thickness in	Distance from Growth Media Stockpile ft	Slope from Pond to Borrow % grade
1	Retention Pond 1		100	300	10.0	17.0	2.0				12	500	5.0
2	Retention Pond 2		100	300	10.0	17.0	2.0				12	500	5.0
3	Retention Pond 3		100	300	10.0	17.0	2.0				12	500	5.0
4	Retention Pond 4		100	300	10.0	17.0	2.0				12	500	5.0
5	Retention Pond 5		100	300	10.0	17.0	2.0				12	500	5.0

- Notes:

 1. All Physical parameters must be input even if manual overrides for volume or area are used.

 2. If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet)

 3. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table
- 5. Four ponds for waste rock facility, 1 pond for general plant site 6. Ponds are in addition to ponds included in APP permit

Se	diment/Evaporation Pond Construction/Re	moval - Use	er Input (cont	.)									
			Sedimen	t Ponds			Growth Media			Revegetation	1	Ripping/Scarifying	
	Description (required)	Excavating Material Condition (select)	Material Type (select)	Excavating Equipment Fleet (select)	Liner Type (select)	Growth Media Material Type (select)	Growth Media Placement Equipment Fleet (select)	Maximum Fleet Size (user override)	Seed Mix (select)	Mulch (select)	Fertilizer (select)	Scarify/ Rip? (select)	Scarify/ Ripping Fleet (select)
1	Retention Pond 1	1	Alluvium	Large		Alluvium	Scraper Dozer		Mix 4	None	None	Yes	Large Dozer
2	Retention Pond 2	1	Alluvium	Large		Alluvium	Scraper Dozer		Mix 4	None	None	Yes	Large Dozer
3	Retention Pond 3	1	Alluvium	Large		Alluvium	Scraper Dozer		Mix 4	None	None	Yes	Large Dozer
4	Retention Pond 4	1	Alluvium	Large		Alluvium	Scraper Dozer		Mix 4	None	None	Yes	Large Dozer
5	Retention Pond 5	1	Alluvium	Large		Alluvium	Scraper Dozer		Mix 4	None	None	Yes	Large Dozer

Notes:

1. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

37 of 131 Sediment & Drainage Control Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

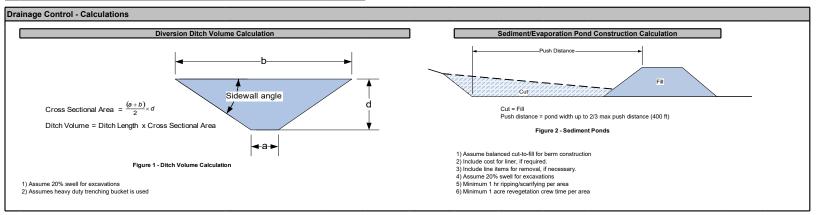
File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

	Labor	Equipment	Materials	Totals
Diversion Ditch Construction	\$4,690	\$12,523	N/A	\$17,213
Diversion Ditch Liner	\$0	\$0	\$0	\$0
Diversion Ditch Rip-Rap	\$231,526	\$43,187	\$128,128	\$402,841
Sed Pond Construct/Regrade	\$2,725	\$11,060	N/A	\$13,785
Liner Installation	\$0	\$0	\$0	\$0
Sed Pond Cover	\$2,715	\$7,415	N/A	\$10,130
Ripping/Scarifying Cost	\$455	\$1,845	N/A	\$2,300
Subtotal Earthworks	\$242,111	\$76,030	\$128,128	\$446,269
Diversion Ditch Revegetation	\$1,890	\$675	\$5,309	\$7,874
Sediment Pond Revegetation	\$770	\$275	\$2,165	\$3,210
Subtotal Revegetation	\$2,660	\$950	\$7,474	\$11,084
TOTALS	\$244,771	\$76,980	\$135,602	\$457,353



Div	ersion Ditches - Excavation Costs															
										Liner Ins	stallation			Cost Cost Cost Cost \$ \$ \$ \$ \$0 \$0 \$0 \$0		
	Description (required)	Diversion Ditch Volume LCY	Diversion Ditch Equipment	Corrected Excavator Productivity LCY/hr	Total Hours	Diversion Ditch Labor Cost \$	Diversion Ditch Equipment Cost \$	Total Diversion Ditch Cost \$	Total Labor Cost \$	Total Equipment Cost \$	Total Material Cost \$	Total Liner Cost	Labor Cost \$			
1	Stormwater Ditch - no riprap	38,400	385BL	935	41	\$3,698	\$9,874	\$13,572	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Stormwater Ditch - rip rap lined	10,160	385BL	935	11	\$992	\$2,649	\$3,641	\$0	\$0	\$0	\$0	\$231,526	\$43,187	\$128,128	\$402,841
		48,560			52	\$4,690	\$12,523	\$17,213	\$0	\$0	\$0	\$0	\$231,526	\$43,187	\$128,128	\$402,841

Notes: LCM assumes 20% swell from ditch volume

Div	version Ditches - Revegetation Costs					
	Description (required)	Surface Area	Revegetation Labor Cost	Revegetation Equipment Cost	Revgetation Material Cost	Total Revegetation Cost
	, , , , , ,	acres	\$	\$	\$	\$
1	Stormwater Ditch - no riprap	10.70	\$1,498	\$535	\$4,208	\$6,241
2	Stormwater Ditch - rip rap lined	2.80	\$392	\$140	\$1,101	\$1,633
		13.50	\$1,890	\$675	\$5,309	\$7,874

Closure Cost Estimate Sediment & Drainage Control

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022
File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm
Model Version: Version 1.4.1

Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12.xlsm
Cost Estimate Type: Surety
Cost Basis: Southern Nevada - Adjusted for Arizona

	Labor	Equipment	Materials	Totals
Diversion Ditch Construction	\$4,690	\$12,523	N/A	\$17,210
Diversion Ditch Liner	\$0	\$0	\$0	\$1
Diversion Ditch Rip-Rap	\$231,526	\$43,187	\$128,128	\$402,84
Sed Pond Construct/Regrade	\$2,725	\$11,060	N/A	\$13,785
Liner Installation	\$0	\$0	\$0	\$(
Sed Pond Cover	\$2,715	\$7,415	N/A	\$10,130
Ripping/Scarifying Cost	\$455	\$1,845	N/A	\$2,300
Subtotal Earthworks	\$242,111	\$76,030	\$128,128	\$446,269
Diversion Ditch Revegetation	\$1,890	\$675	\$5,309	\$7,874
Sediment Pond Revegetation	\$770	\$275	\$2,165	\$3,210
Subtotal Revegetation	\$2,660	\$950	\$7,474	\$11,084
TOTALS	\$244,771	\$76,980	\$135,602	\$457,350

Sec	liment/Evaporation Ponds - Construction/F	Regrading (Costs														
Pro	ductivity = Dozer Productivity x Grade Correction	x Density Co	orrection x Ope	rator (0.75) x	Material x Vis	ibility x Job E	fficiency (0.8	3)				Earthwork			Li	iner	
	Description	Regrading	Sed/Evap Pond	Dozing Distance	Uncorrected Dozer	Grade	Density	Excavating	Corrected	Total Dozer	Total Labor	Total Equipment	Total Constr/	Total Labor	Total Equipment	Total Material	
	(required)	Volume	Equipment	(see above)	Productivity LCY/hr	Correction	Correction	Material	Productivity LCY/hr	Hours hr	Cost	Cost	Regrading Cost	Cost	Cost	Cost	Total Liner Cost
1	Retention Pond 1	4,933	D10R	1D0	1,627	1.00	0.79	1.00	800	6	\$545	\$2,212	\$2,757	\$0	\$0	\$0	\$00
2	Retention Pond 2	4,933	D10R	100	1,627	1.00	0.79	1.00	800	6	\$545	\$2,212	\$2,757	\$0	\$0	\$0	\$0
3	Retention Pond 3	4,933	D10R	100	1,627	1.00	0.79	1.00	800	6	\$545	\$2,212	\$2,757	\$0	\$0	\$0	\$0
4	Retention Pond 4	4,933	D10R	100	1,627	1:00	0.79	1.00	800	6	\$545	\$2,212	\$2,757	\$0	\$0	\$0	\$0
5	Retention Pond 5	4,933	D10R	100	1,627	1:00	0.79	1.00	800	6	\$545	\$2,212	\$2,757	\$0	\$0	\$0	\$0
		24,665								30	\$2,725	\$11,060	\$13,785	\$0	\$0	\$0	\$0

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					Growth	Media			
	Description (required)	Growth Media Volume	Growth Media Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost	Total Equipment Cost	Total Cover Placement Cost
1	Retention Pond 1		631G/D10R/D7R	802	00000400000	2	\$543	\$1,483	\$2,026
2	Retention Pond 2	1,775		802	00000400000	2	\$543	\$1,483	\$2,026
3	Retention Pond 3	1,775		802	000000100000	2	\$543	\$1,483	\$2,026
4	Retention Pond 4	1,775	631G/D10R/D7R	802	0.0000100000	2	\$543	\$1,483	\$2,026
5	Retention Pond 5	1,775	***********	802	90000100000	2	\$543	\$1,483	\$2,026
		8,875				10	\$2,715	\$7,415	\$10,130

Sec	liment/Evaporation Ponds - Revegetation C	Costs										
	Description	Surface	Long	Ripping/	Scarifying/ Ripping	Scarifying/ Ripping Labor	Scarifying/ Ripping Equipment	Total Scarifying/ Ripping	Revegetation Labor	Revegetation Equipment	Revgetation Material	Total Revegetation
	(required)	Area acres	Ripping Distance	Scarifying Fleet	Hours hrs	Costs S	Cost	Costs	Cost \$	Cost \$	Cost \$	Cost
1	Retention Pond 1	1.10	300	D10R		\$91	\$369	\$460	\$154	\$55	\$433	\$642
2	Retention Pond 2	1.10	300	D10R	4	\$91	\$369	\$460	\$154	\$55	\$433	\$642
3	Retention Pond 3	1,10	300	D10R		\$91	\$369	\$460	\$154	\$55	\$433	\$642
4	Retention Pond 4	1,10	300	D10R		\$91	\$369	\$460	\$154	\$55	\$433	\$642
5	Retention Pond 5	1.10	300	D10R	10000	\$91	\$369	\$460	\$154	\$55	\$433	\$642
	_	5.50			5	\$455	\$1,845	\$2,300	\$770	\$275	\$2,165	\$3,210

Closure Cost Estimate Process Ponds

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

	Labor	Equipment	Materials	Totals
Backfilling Costs	\$0	\$0	N/A	\$0
Growth Media Placement Costs	\$0	\$0	N/A	\$0
Liner Cutting & Folding Costs	\$0	\$0	N/A	\$(
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Costs	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$(

Closure Cost Estimate Landfills

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022
File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12.xlsm
Cost Estimate Type: Surety
Cost Basis: Southern Nevada - Adjusted for Arizona

	Labor	Equipment	Materials	Totals
Grading Costs	\$0	\$0	N/A	\$0
Cover Placement Cost	\$0	\$0	N/A	\$0
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$0	\$0	\$0	\$0
Revegetation Cost	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$0

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Closure Cost Estimate Yards, Etc.

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022
File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Yards, Etc Cost Summary				
	Labor	Equipment	Materials	Totals
Regrading Cost	\$43,115	\$175,104	N/A	\$218,219
Cover Placement Cost	\$115,300	\$269,811	N/A	\$385,111
Growth Media Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$149,953	\$608,993	N/A	\$758,946
Subtotal Earthworks	\$308,368	\$1,053,908		\$1,362,276
Revegetation Cost	\$349,020	\$124,650	\$980,373	\$1,454,043
TOTALS	\$657,388	\$1,178,558	\$980,373	\$2,816,319

Yar	ds, Etc User Input				You must fill in ALL green cells and relevant blue cells in this section for each building or facility							
	Facility Description				Physical			Cover		Growth Media		
	Description (required)	ID Code	Туре	Area acres	Average Flat Area Long Dimension (ripping distance)	Regrade Volume (calculated elsewhere)	Cover Thickness in	Distance from Cover Borrow Area	Slope from Facility to Borrow Area % grade	Growth Media Thickness in	Distance from Growth Media Stockpile ft	Slope from Facility to Stockpile % grade
1	Plant Site facilities		Yard	154.00	500		12	500	5.0			
2	Yards, storage, and buffer areas		Other Facilities	750.00	500	37,500						
3	TSF-1 and TSF-2 general areas		Other Facilities	1253.00	500	62,650						
4	Heap Leach Facility general area		Other Facilities	336.00	500	16,800						

Notes:

- 1. All Physical parameters must be input even if manual overrides for volume or area are used.
 2. If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet)
 3. Yards, storage, and buffer areas include other disturbed areas within property boundaries. Reclamation includes minor regrading, scarifying and seeding.
 4. Plant site facilities excludes areas reclaimed under buildings. Assumes cover material located adjacent.

Yar	ds, Etc User Input (cont.)		You must fill in Al	LL green cells a	nd relevant blu	e cells in this se	ction for each b	uilding or facili	ty						
			Grading			Cover		(Growth Media	3		R	evegetation		
	Description (required)	Regrading Material Condition (select)	Regrading Material Type (select)	Regrading Equipment Fleet (select)	Cover Material Type (select)	Cover Placement Equipment Fleet (select)	Maximum Fleet Size (user override)	Growth Media Material Type (select)	Growth Media Equipment Fleet (select)	Maximum Fleet Size (user override)	Seed Mix (select)	Mulch (select)	Fertilizer (select)	Scarify/ Rip?	Ripping Fleet (select)
1	Plant Site facilities	1	Alluvium	Large	Alluvium	Large Truck		, ,	` ´		Mix 4	None	None	Yes	Large Dozer
2	Yards, storage, and buffer areas	1	Alluvium	Large							Mix 4	None	None	Yes	Large Dozer
3	TSF-1 and TSF-2 general areas	1	Alluvium	Large							Mix 4	None	None	Yes	Large Dozer
4	Heap Leach Facility general area	1	Alluvium	Large							Mix 4	None	None	Yes	Large Dozer

	Grading Calculations
Average push distar	nce assumed to be 2/3 of the 600 feet maximum from Catepillar Handbook or 400 feet
	be loose stockile (1.2 productivity factor)
Slope assumed to b	e 0 to 5% (1.0 productivity factor)
	Cover Volume Calculation
Yard area x cover th	ickness
	Ripping/Scarifying Calculations
	ppg-cumy.ng cumulations
	al flat area + Average long dimensions
Number of passes =	Flat area width + Grader width
Number of passes = Travel distance = No	Flat area width + Grader width umber of passes x. Average long dimensions
Number of passes = Travel distance = Nu Total hours = (Trave	Flat area width + Grader width

5/4/2022

Yards, Etc.

Closure Cost Estimate Yards, Etc.

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022 File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm
Cost Estimate Type: Surety
Cost Basis: Southern Nevada - Adjusted for Arizona

Yards, Etc Cost Summary				
· ·	Labor	Equipment	Materials	Totals
Regrading Cost	\$43,115	\$175,104	N/A	\$218,219
Cover Placement Cost	\$115,300	\$269,811	N/A	\$385,111
Growth Media Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$149,953	\$608,993	N/A	\$758,946
Subtotal Earthworks	\$308,368	\$1,053,908		\$1,362,276
Revegetation Cost	\$349,020	\$124,650	\$980,373	\$1,454,043
TOTALS	\$657,388	\$1,178,558	\$980.373	\$2,816,319

Revegetation

Minimum 1 acre revegetation crew time per area

Yar	ds, Etc Regrading Costs												
Proc	ductivity = Dozer Productivity x Grade Correction x	Density Corr	rection x Operat	or (0.75) x M	aterial x Visib	ility x Job E	fficiency (0.83	3) x (Slot/Sid	e-by-Side)				
	Description (required)	Regrading Volume cy	Dozing Distance (see above)	Regrading Fleet	Uncorrected Dozer Productivity cy/hr	Grade Correction	Dozing Material	Density Correction	Total Hourly Productivity cy/hr	Total Dozer Hours hr	Total Labor Cost \$	Total Equipment Cost \$	Total Regrading Cost \$
1	Plant Site facilities	******		D10R	8000000000		***********			****	\$0	\$0	\$0
2	Yards, storage, and buffer areas	37,500	400	D10R	501	1.0	1.0	0.79	246	152	\$13,797	\$56,033	\$69,830
3	TSF-1 and TSF-2 general areas	62,650	400	D10R	501	1.0	1.0	0.79	246	255	\$23,146	\$94,003	\$117,149
4	Heap Leach Facility general area	16,800	400	D10R	501	1.0	1.0	0.79	246	68	\$6,172	\$25,068	\$31,240
		116.950								475	\$43,115	\$175,104	\$218,219

Yard	ds, Etc Cover and Growth Media Costs																
					Cove	er							Growth	Media			
	Description (required)	Cover Volume	Topsoil Repacement Fleet	Fleet Productivity	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost	Total Equipment Cost	Total Cover Cost	Growth Media Volume	Growth Media Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost	Total Equipment Cost	Total Growth Media Cost
1	Plant Site facilities	248,453	769D/988G/D7R	684	2	363	\$115,300	\$269,811	\$385,111			2017111			\$0	\$0	\$0
2	Yards, storage, and buffer areas						\$0	\$0	\$0						\$0	\$0	\$0
	TSF-1 and TSF-2 general areas						\$0	\$0	\$0						\$0	\$0	\$0
4	Heap Leach Facility general area						\$0	\$0	\$0						\$0	\$0	\$0
		248,453				363	\$115,300	\$269,811	\$385,111						\$0	\$0	\$0

Yar	ds, Etc Scarifying/Revegetation Costs											
	Description (required)	Surface Area	Area Long Dimension	Ripping/ Scarifying Fleet		Scarifying/ Ripping Labor Costs	Scarifying/ Ripping Equipment Cost	Total Scarifying/ Ripping Costs	Revegetation Labor Cost	Revegetation Equipment Cost	Revgetation Material Cost	Total Revegetation Cost
<u> </u>		acres	tt		hrs	\$	\$	\$	\$	\$	\$	\$
1	Plant Site facilities	154.00	500	D10R	102	\$9,259	\$37,601	\$46,860	\$21,560	\$7,700	\$60,561	\$89,821
2	Yards, storage, and buffer areas	750.00	500	D10R	497	\$45,113	\$183,214	\$228,327	\$105,000	\$37,500	\$294,938	\$437,438
3	TSF-1 and TSF-2 general areas	1253.00	500	D10R	830	\$75,339	\$305,971	\$381,310	\$175,420	\$62,650	\$492,742	\$730,812
4	Heap Leach Facility general area	336.00	500	D10R	223	\$20,242	\$82,207	\$102,449	\$47,040	\$16,800	\$132,132	\$195,972
_		2,493.00			1.652	\$149,953	\$608,993	\$758,946	\$349.020	\$124,650	\$980,373	\$1,454,043

Closure Cost Estimate Waste Disposal

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Waste Disposal - Cost Summary					
		Labor	Equipment	Fees	Totals
Solid Waste - On Site		\$0	\$0	N/A	\$0
Solid Waste - Off Site					\$143,213
Hazardous Materials					\$0
Hydrocarbon Contaminated Soils		\$0	\$0	\$0	\$0
	TOTALS	\$0	\$0	\$0	\$143,213

Wast	e Disposal - User Input - Solid Waste								
						Lanc	lfill (Bulk) Dis	osal	Dumpster
								Number	Months
	Description		Waste	Disposal		Distance	Slope to	of	Dumpster
	(required)	ID Code	Type	Method	Quantity	to Landfill	Landfill	Trucks	Rental
			(select)	(select)	су	ft	% grade	(user override)	months
1	Solid Waste Removal		Waste Mgmt & Disposal	Dumpster	2,000				24

Notes

- 1. All Physical parameters must be input even if manual overrides for volume or area are used.
- 2. If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet)

Waste	Disposal - User Input - Hazardous Materials								
1								One Way	
1					Vacuum			Travel	One Way
1	Description		Waste	Container	Truck	Liquid	Soild	Distance to	Travel Time to
1	(required)	ID Code	Туре	Type	Size	Quantity	Quantity	Disposal Site	Disposal Site
			(select)	(select)	(select)	gallons	су	mi	hr

Notes:

1. Use Other Demo & Equip Removal Sheet for tank removal

Waste I	Disposal - User Input - Hydrocarbon Contan	ninated Soils				
						Travel
1						Distance to
1	Description		Waste	Disposal		Offsite
1	(required)	ID Code	Type	Method	Quantity	Disposal
			(select)	(select)	су	mi

Notes:

1. Use Yards or Landfills Sheets for bioremediation facility reclamation

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Closure Cost Estimate Waste Disposal

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Waste Disposal - Cost Summary					
'		Labor	Equipment	Fees	Totals
Solid Waste - On Site		\$0	\$0	N/A	\$0
Solid Waste - Off Site					\$143,213
Hazardous Materials					\$0
Hydrocarbon Contaminated Soils		\$0	\$0	\$0	\$0
	TOTALS	\$0	\$0	\$0	\$143,213

Waste Disposal - Assumptions & Calculations

Solid Waste Disposal

Off site disposal assumes use of average rolloff dumpster [30 cy (m3), 10 ton (tonne)]

On site disposal assumes use of small loader/truck fleet for haulage

Average density for on site disposal = 2,600 lb/cy (1,540 kg/m3)

For on site disposal only 1 truck is required unless total truck hours > 8, only 2 trucks unless total truck hours are > 16

Hazardous Materials Disposal

Assumes all hazardous materials are known

Enter EITHER solid or liquid quantity each line.

If container type = 55 gallon (200 liter) drum then solid waste hauling costs apply

Average density for solids assumed to be 2,600 lb/cy (1,540 kg/m3)

Vacuum truck sizes: small = 2,200 gal (~8,300 litres), large = 5,000 gal (~19,000 litres)

Vacuum truck on site for 4 hours for each load

Hydrocarbon Contaminated Soils Disposal

Assumes all hazardous materials are known

On site disposal assumes biopad treatment

Exavation productivity =45 cy./hr (35 m3/hr) (Means Heavy Construction, 2006: 02315-424-0360)

Waste	Disposal - Solid Waste Disposal										
	Description (required)	Waste Volume cy	Number of Off Site Dumpster Loads	Landfill Fleet Equipment	Landfill Fleet Productivity LCY/hr	Number of Trucks	Total Fleet Hours	Total Dumpster Cost \$	Total Labor Cost \$	Total Equipment Cost \$	Total Waste Disposal Cost \$
1	Solid Waste Removal	2,000	67					\$143,213	\$0	\$0	\$0
		2,000						\$143,213	\$0	\$0	\$0

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Well Abandonment				
	Labor	Equipment	Materials	Totals
Production, Dewatering, Infiltration Wells	\$135,406	\$252,808	\$21,161	\$409,375
Monitoring Wells	\$0	\$0	\$0	\$0
TOTALS	\$135,406	\$252.808	\$21,161	\$409.375

Production, Dewatering and Infilt	ration Well (Closure																								
		Number				Original Static	Top of	Blank Casing	Type of		Hole	Casing		Grout Volume	Cement Volume	Inert Media Volume	Pump Removal	Pump Removal	Perf	Perf	Grout + Cement	Grout + Cement	Grout + Cement	Inert Media	Inert	
Description		of		Average	Depth to First	Water	Slotted	Below Top	Pump	Depth to	Plug	Volume	Perforation	per	per	per	Labor	Equip	Labor	Equip	Labor	Equip	Material	Labor	Media Equip	Total
(required)	ID Code	Holes	Casing Diam	Depth(1)	Water	Level	Casing ⁽²⁾	of Screen(2	(if any)	Pump	Method	per ft	Length (3,4)	Hole ^(4,5)	Hole ⁽⁶⁾	Hole ⁽⁷⁾	Cost	Cost	Cost	Cost (8)	Cost(9)	Cost	Cost	Cost(10)	Cost(9)	Cost
			in	ft bgs	ft bgs	ft bgs	ft bgs	ft	(select)	ft bgs	(select)	cf	ft	су	cy	cy	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
1 Dewatering Wells		10	12.0	1,000	200	200	300	600	Submersib	800	Grout + Ba	0.790	750	49.70	0.60	2.90	\$61,200	\$150,880	\$42,468	\$67,018	\$30,431	\$34,588	\$21,161	\$1,307	7 \$322	\$409,375 \$409,375
·																	\$61,200	\$150,880	\$42,468	\$67,018	\$30,431	\$34,588	\$21,161	\$1,307	\$322	\$409,375

(1) For previously abandoned holes enter "0" for depth
(2) Wells abandoned per Nevada Administrative Code (NAC 534.420). Hole grouted and perforated from bottom to 50 feet (15.24m) above the top of the screen, or first water encountered or original static water level, depending on vertical hydraulic gradient and well construction parameters. Inert media (cuttings or alluvium) used from top of grout to top seal.
(3) Perforation length = amount of blank casing below first water (for confined aquifers) or predicted recovered water table (unconfined aquifers) + 50 feet (15.24m) of blank casing above water table
(4) Assumes 50' (15.24m) sanitary seal at top of hole. Therefore, perforation and grouting only required to bottom of sanitary seal.
(5) Assumes 20' (6m) top seal of cement in casing only. See note 4.
(7) Inert material is cuttings or alluvium sourced locally.
(8) Includes perforation tool wear costly of perforation (see Productivity Sheet).
(9) See Productivity Sheet for hourly production. Minimum 1 hr per hole + fixed hours per hole for move and setup. If no perforation required, use standard drill rig.
(10) See Productivity Sheet for hourly production. Minimum 1 hr per hole.

5/4/2022 Copyright © 2004 - 2009 SRCE Software. All Rights Reserved. Page 46 of 131 Well Abandonment Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022
File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Well Abandonment				
	Labor	Equipment	Materials	Totals
Production, Dewatering, Infiltration Wells	\$135,406	\$252,808	\$21,161	\$409,375
Monitoring Wells	\$0	\$0	\$0	\$0
TOTALS	\$135,406	\$252,808	\$21,161	\$409,375

	Monitoring Well Closure																		
	Description		Number of	Casing	Average	Top of	Hole Plua	Casing Volume	Grout Volume/	Cement Volume	Inert Backfill Volume	Total Grouting Hours/	Total Inert Media Hours/	Grout + Cement Labor	Grout + Cement Equip	Grout + Cement Material	Inert Material Labor	Inert Material Equip	Total
- 1	(required)	ID Code	Holes	Diam	Depth	Screen ⁽¹⁾	Method	per ft	Well ^(2,3)	Hole ⁽⁴⁾	per Hole ⁽⁵⁾	Hole	Hole	Cost ⁽⁶⁾	Cost ⁽⁶⁾	Cost	Cost ⁽⁷⁾	Cost ⁽⁷⁾	Cost
ı				in	ft bgs	ft bgs	(select)	ft3	су	су	су	hr	hr	\$	\$	\$	\$	\$	\$
														\$0	\$0	\$0	\$0	SO:	\$0

- Wells abandoned per NAC 534.420 with bentonite grout placed to 50 feet above the top of the screen (see note 1).

 (1) Assumes top of screen is at or above the static water level (in unconfined aquifers) or the depth of first water encountered (in confined aquifers).

 (2) Assumes 25% loss to formation for grouting

 (3) Grouting only required to 50′ (15.24m) above the top of screen because monitor wells are constructed with a seal in the annular space.

 (4) Assumes top 20′ (6m) plugged with cement.

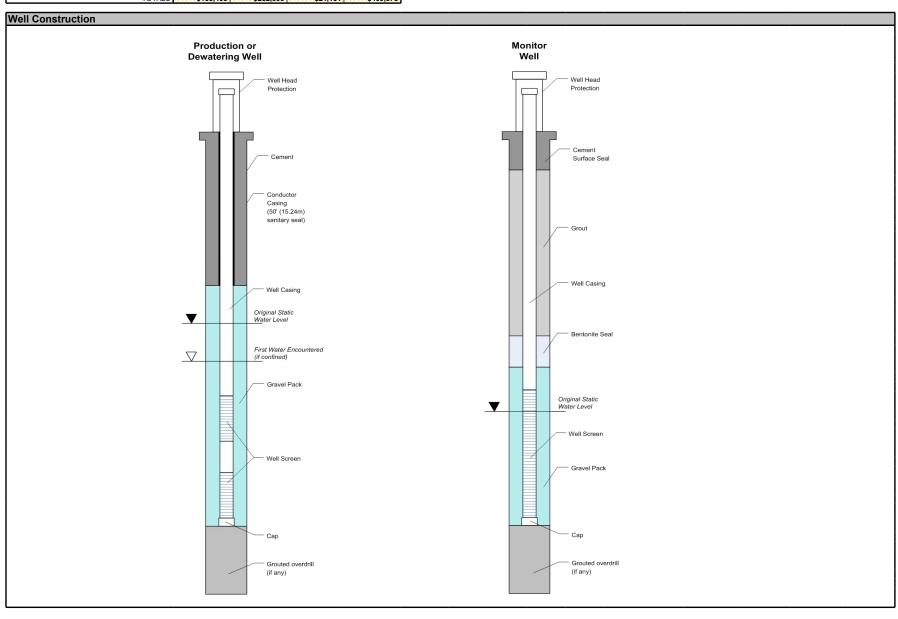
 (5) Assumes hole plugged with inert material (cuttings or alluvium) above grout up to cement surface plug.

 (6) See Productivity Sheet for hourly production. Minimum 1 hr per hole + fixed hours per hole for move and setup (see Productivty Sheet).

 (7) See Productivity Sheet for hourly production. Minimum 1 hr per hole.

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File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12.xlsm
Cost Estimate Type: Surety
Cost Basis: Southern Nevada - Adjusted for Arizona

Well Abandonment				
	Labor	Equipment	Materials	Totals
Production, Dewatering, Infiltration Wells	\$135,406	\$252,808	\$21,161	\$409,375
Monitoring Wells	\$0	\$0	\$0	\$0
TOTALS	\$135,406	\$252.808	\$21,161	\$409.375



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Well Abandonment

Closure Cost Estimate Misc. Costs

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

	Labor	Equipment	Materials	Totals
Fence Removal	\$0	\$0	N/A	\$(
Fence Installation	\$59,292	\$9,338	\$248,140	\$316,77
Culvert & Buried Pipe Removal	\$1,037,634	\$289,380	N/A	\$1,327,01
Surface Pipe Removal	\$0	\$0	N/A	\$i
Power Lines	\$449,318	N/A	N/A	\$449,31
Substations/Transformers	\$294,985	N/A	N/A	\$294,98
Rip-rap, rock lining, gabions	\$0.	\$0	\$0	\$1
Other Costs	\$0	\$0	\$0	\$1
	TOTALS \$1,841,229	\$298,718	\$248,140	\$2,388,08

Fenc	ce Installation			You must fill in A	LL green and blue	cells		
			Input			Co	sts	
	Description				Labor	Equipment	Material	Total
1	(required)	ID Code	Length	Type	Cost	Cost	Cost	Cost
			ft	(select type)	\$	\$	(\$)	\$
1	Peach Pit		318	Chain link 8-10ft (\$2,887	\$455	\$12,084	\$15,426
2	Elgin Pit		4843	Chain link 8-10ft (\$43,974	\$6,925	\$184,034	\$234,933
3	Rosemont Pit		1369	Chain link 8-10ft (\$12,431	\$1,958	\$52,022	\$66,411
					\$59,292	\$9,338	\$248,140	\$316,770

Notes: 1. Assumes fencing around each pit. Other pits previously fenced are filled with waste rock.

Culv	ert & Buried Pipe Removal			You must fill in A	LL green and blue	e cells		
				Input			Costs	
	Description					Labor	Equipment	Total
	(required)	ID Code	Length	Type	Location	Cost	Cost	Cost
			ft	(select type)	(select)	\$	\$	\$
1	Water Pipes through utility corridor		64000	24 in (600 mm) Di	Off site	\$963,840	\$268,800	\$1,232,640
2	Haul Road Culverts		4300	24 in (600 mm) Di	On site	\$64,758	\$18,060	\$82,818
3	Plant site access road culverts		600	24 in (600 mm) Di	On site	\$9,036	\$2,520	\$11,556
						\$1,037,634	\$289 380	\$1 327 014

Notes: 1. Haul road culverts assume 40' of pipe left in place (100' removed) to maintain road for maintenance access

Haul road culverts assume 4 per mile for 4.3 miles averaging 140' feet in length each.
 Plant site access roads assumed to have 10, 24-inch diameter culverts, each 60' feet in length.

Closure Cost Estimate Misc. Costs

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

		Labor	Equipment	Materials	Totals
Fence Removal		\$0	\$0	N/A	\$0
Fence Installation		\$59,292	\$9,338	\$248,140	\$316,770
Culvert & Buried Pipe Removal		\$1,037,634	\$289,380	N/A	\$1,327,014
Surface Pipe Removal		\$0	\$0	N/A	\$(
Power Lines		\$449,318	N/A	N/A	\$449,318
Substations/Transformers		\$294,985	N/A	N/A	\$294,985
Rip-rap, rock lining, gabions		\$0	\$0	\$0	\$0
Other Costs		\$0	\$0	\$0	\$(
	TOTALS	\$1,841,229	\$298,718	\$248,140	\$2,388,087

Surfa	ace Pipe Removal			You must fill in A	LL green and blue	e cells		
				Input		Costs		
	Description					Labor	Equipment	Total
1	(required)	ID Code	Length	Type	Location	Cost	Cost	Cost
			ft	(select type)	(select)	\$	\$	\$
						\$0	\$0	\$0

Notes:

Powe	er Line and Substation Removal	You must fill in ALL green and blue cells									
			Input				Costs	Cost Breakdown			
	Description (required)	ID Code	Power Line			Power Line Removal	Substation Removal	Total Cost	Labor Cost	Equipment Cost	
1	Powerline through utility corridor		9.1	Single Pole	1	Off-site	\$425,916	\$58,997	\$484,913	\$96,983	\$387,930
2	On-site powerlines and substations		0.5	Single Pole	4	On-site	\$23,402	\$235,988	\$259,390	\$51,878	\$207,512
							\$449,318	\$294,985	\$744,303	\$148,861	\$595,442

Notes: If substation owned by operator, use Other Demo & Equipment Removal sheet

User may need to add line items in Foundations & Buildings for substation slab demolition and fence removal Labor/Equipment costs assume approximately 80% of cost are equipment and 20% are labor related costs

1. Off-sie substation is Toro Switchyard

- 2. On-site substations include Helvetia, mill, and 2 SX-EW Rectifier substations

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Closure Cost Estimate Monitoring

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

	Labor	Equipment	Lab & Materials	Totals
Revegetation Maintenance	\$47,872	\$17,097	\$134,469	\$199,438
Erosion Maintenance	\$1,843	\$5,528	N/A	\$7,371
Reclamation Monitoring	\$55,616	\$1,288	N/A	\$56,904
Subtotal Reclamation Monitoring	\$105,331	\$23,913	\$134,469	\$263,713
Water Quality Monitoring	\$0	\$0	\$0	\$0
TOTAL MONITORING	\$105,331	\$23,913	\$134,469	\$263,713

Reclamation Maintenance								
Description	Total Revegetation Surface Area (1,2)	% Area Requiring Reseeding	Seed Mix	Area Requiring Reseeding	Seed	Labor	Equipment	Totals
	acres		(select)	acres	\$/acres	\$/acres	\$/acres	\$
Revegetation Maintenance	3,419	10%	Mix 4	341.9	\$393.25	\$140.00	\$50.00	
Labor								\$47,872
Equipment								\$17,097
Materials								\$134,469
Cost/Acre	İ							\$583
							Subtotal	\$199,438

Notes: 1) Surface area is NOT the same as footprint disturbance area typically used for permitting purposes.

Does not include areas for APP Permit

	Total Volume Growth Media	% Volume Requiring Maintenance	Average Growth Media Placement Cost	Volume Requiring Replacement	Labor (assume: 25%)	Equipment (assume: 75%)	Total
	су		\$/CY	су	\$/acres	\$/acres	\$
Erosion Maintenance	29,251	10%	\$2.52	2,925	\$1,843.00	\$5,528.00	\$7,371

Notes:

Does not include areas for APP Permit

Reclamation Monitoring					
Description	Hrs/Day	Days/Year	Number of Years	Rate \$/hr	
Field Work	_			****	
Field Geologist/Engineer	8	4	5	\$162.04	8888
Range Scientist	8	4	5	\$146.94	3000
Reporting					
Field Geologist/Engineer	1	4	5	\$162.04	88888
Range Scientist	1	4	5	\$146.94	3333
					Subtotal
Travel					
	Hrs/Trip	Trips/Year	Years	Truck Cost	
	hr			\$/hr	
Travel	2	4	5	\$32.19	00000
					Subtotal

Total Reclamation Monitoring \$56,904

Notes: Does not include areas for APP Permit

All sampling and reporting performed under APP Permit

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Closure Cost Estimate Constr. Mgmt

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Construction Management & Road Maintenance - Cost Summary										
	Labor	Equipment	Materials	Totals						
Construction Management	\$33,677	\$6,578	N/A	\$40,255						
Construction Support		\$0		\$0						
Road Maintenance	\$0	\$0	\$0	\$0						
TOTAL CONSTRUCTION MANAGEMENT	\$33,677	\$6,578	\$0	\$40,255						

mo. hr. \$/hr \$ \$ \$ \$ \$ \$ \$ \$ \$			Constr	ruction Manage	ment Staff			
Active Reclamation	Description	Duration	Month		Rate			Totals
Monitoring & Maintenance 60 4 1 \$140.32 \$33,677 \$6,578 \$ \$ \$ \$ \$ \$ \$ \$ \$		mo.	hr.		\$/hr	-		\$
Total Staff \$33,677 \$6,578 \$.	Active Reclamation					\$0	\$0	9
Construction Management Support Construction Management Support Construction Management Su	Monitoring & Maintenance	60	4	1	\$140.32	\$33,677	\$6,578	\$40,2
Construction Management Support Construction Management Support Construction Management Support Construction Munits Construction Munits Construction Munits Construction Munits Construction Munits Construction Management Support Construction Management Support Construction Managemen								0.40.0
Temporary Office Rental \$0	Construction Managemer	nt Support			Total Staff	\$33,677	\$6,578	\$40,2
					Rental	Generator	Equipment	\$40,2
T		Duration			Rental Rate	Generator Cost	Equipment Cost ⁽¹⁾	Totals
Temporary Tollets	Description	Duration			Rental Rate	Generator Cost	Equipment Cost ⁽¹⁾	Totals
Total Support \$0	Description	Duration			Rental Rate	Generator Cost	Equipment Cost ⁽¹⁾	Totals \$

Road Maintenance							
Description	Fleet Size	Number	Duration	Hours/ Month	Labor Cost	Equipment Cost	Totals
Active Reclamation	(select)		mo.	hr.	\$	\$	\$
Water Truck					\$0:	\$0	so
Grader					\$0	\$0	\$(
Monitoring & Maintenance	e						•
Water Truck					\$0	\$0	\$(
Grader					\$0	\$0	\$(
Description	Gallons/ Day	Days/ Month	Duration mo.	Cost/ Gallon \$			Totals \$
Water Fees							
Water Fees							\$0
			Total Pro	ject Maintenance	\$0	\$0	\$(

- Notes: 1) Supervisor equipment = pickup truck
 2. Office/toilets covered by APP Permit
 3. Road maintenance covered by APP Permit
 4. Construction Management for 5 Years of Monitoring for MLRP reclamation vegetation and erosion
 5. Other Construction Management covered under APP Permit

Closure Cost Estimate Labor Rates

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022
File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12.xlsm
Cost Estimate Type: Surety
Cost Basis: Southern Nevada - Adjusted for Arizona

Color Code Key							
User Input - Direct Input	Direct Input						
User Input - Pull Down List	Pull Down Selection						
Program Constant (can override)	Alternate Input						
Program Calculated Value	Locked Cell - Formula or Reference						

ZONE ADJUSTMENTS		
Cost Basis/Project Region	Southern Nevada - Adjusted for Arizona	Clark, Esmeralda, Lincoln and Nye Counties - Adjusted for Pima County, AZ
Power Equipment Operators	Zone A	\$0.00
Truck Drivers	Zone A	\$0.00
Laborers	Zone A	\$0.00
INDIRECT COSTS		
Unemployment (%)	3.00%	
Retirement/SS/Medicare (%)	7.65%	
Workman's Compensation (%)	7.60%	
Other Indirects		
State Payroll Tax (13),(15),(17),(1	0.80%	
Total Other Indirects	0.80%	

EQUIPMENT TYPE (1) OR JOB DESCRIPTION	Labor Group	Base Rate	Zone Adjustment	Hourly Wage	Fringe	Retirement/ Medicare	Unemployment Insurance	Workman's Compensation	Other Indirect Costs	Total
	-	(\$/hr)	(\$/hr)	(\$/hr)	(\$/hr)	(\$/hr)	(\$/hr)	(\$/hr)	(\$/hr)	(\$/hr)
quipment Operators (\$/	hr) (2)									
Bulldozers										
D6R	Group 5	\$53.02	\$0.00	\$53.02	\$27.65	\$1.59	\$4.06	\$4.03	\$0.42	\$90.
D6R w/ Winch D7R	Group 5	\$53.02	\$0.00	\$53.02	\$27.65 \$27.65	\$1.59	\$4.06	\$4.03	\$0.42	\$90:
D8R	Group 5	\$53.02	\$0.00	\$53.02	\$27.65	\$1.59	\$4.06	\$4.03	\$0.42	\$90
D9R	Group 5	\$53.02	\$0.00	\$53.02	\$27.65	\$1.59	\$4.06	\$4.03	\$0.42	\$90.
D10R	Group 5	\$53.02	\$0.00	\$53.02	\$27.65	\$1.59	\$4.06	\$4.03	\$0.42	\$90
D11R	Group 5	\$53.02	\$0.00	\$53.02	\$27.65	\$1.59	\$4.06	\$4.03	\$0.42	\$90.
Wheeled Dozers										
824G					\$27.65					
834G					\$27.65					
844 854G					\$27.65					
			<u> </u>	200000000000000000000000000000000000000	\$27.65		*************		************	
Motor Graders 120H	Croup 12	DE0 E4	\$0.00	*****	\$07.6E	*****************************		***************************************		*******
120H 14G/H	Group 12 Group 12	\$52.54 \$52.54	\$0.00	\$52.54 \$52.54	\$27.65 \$27.65	\$1.58 \$1.58	\$4.02 \$4.02	\$3.99 \$3.99	\$0.42 \$0.42	\$90 \$90
16G/H	Group 12	\$52.54	\$0.00	\$52.54	\$27.65	\$1.58	\$4.02	\$3.99	\$0.42	\$90
24M	Croup 12	\$02.01	\$0.00		\$27.65	V 1.50	V 1.02	00.00	V 0.72	
Track Excavators										
312C	Group 12	\$52.54	\$0.00	\$52.54	\$27.65	\$1.58	\$4.02	\$3.99	\$0.42	\$90
320C	Group 12	\$52.54	\$0.00	\$52.54	\$27.65	\$1.58	\$4.02	\$3.99	\$0.42	\$90
325C	Group 12	\$52.54	\$0.00	\$52.54	\$27.65	\$1.58	\$4.02	\$3.99	\$0.42	\$90
330C	Group 12	\$52.54	\$0.00	\$52.54	\$27.65	\$1.58	\$4.02	\$3.99	\$0.42	\$90
345B	Group 12	\$52.54	\$0.00	\$52.54	\$27.65	\$1.58	\$4.02	\$3.99	\$0.42	\$90
365BL 385BL	Group 12	\$52.54	\$0.00	\$52.54	\$27.65 \$27.65	\$1.58	\$4.02	\$3.99	\$0.42	\$90.
Scrapers	Group 12	ψ02.04	\$0.00		Ψ21.00					
631G	Group 12	\$52.54	\$0.00	\$52.54	\$27.65	\$1.58	\$4.02	\$3.99	\$0.42	\$90:
637G	Group 12	\$52.54	\$0.00	\$52.54	\$27.65	\$1.58	\$4.02	\$3.99	\$0.42	\$90.
Wheeled Loaders										
924G	Group 6	\$52.14	\$0.00	\$52.14	\$27.65	\$1.56	\$3.99	\$3.96	\$0.42	\$89
928G	Group 6	\$52.14	\$0.00	\$52.14	\$27.65	\$1.56	\$3.99	\$3.96	\$0.42	\$89.
950G	Group 6	\$52.14	\$0.00	\$52.14	\$27.65	\$1.56	\$3.99	\$3.96	\$0.42	\$89.
966G	Group 6	\$52.14	\$0.00	\$52.14	\$27.65	\$1.56	\$3.99	\$3.96	\$0.42	\$89.
972G 980G	Group 6 Group 6	\$52.14 \$52.14	\$0.00 \$0.00	\$52.14 \$52.14	\$27.65	\$1.56	\$3.99 \$3.99	\$3.96	\$0.42 \$0.42	\$89. \$89.
988G	Group 10	\$52.14	\$0.00	\$52.14	\$27.65 \$27.65	\$1.56 \$1.57	\$4.01	\$3.96 \$3.98	\$0.42	\$90
990	Group 10	Ψ02.01	\$0.00	Ψ02.01	\$27.65	Ψ1.57				Ψ50
992G	Group 10	\$52.37	\$0.00	\$52.37	\$27.65	\$1.57	\$4.01	\$3.98	\$0.42	\$90
994D					\$27.65					
L2350					\$27.65					
Shovels										
PC2000					\$27.65					
PC3000					\$27.65					
PC4000 PC5500					\$27.65 \$27.65					
PC8000					\$27.65					
Hydraulic Hammers					Ψ21.00					
H-120 (fits 325)										
H-160 (fits 345)										
H-180 (fits 365/385)										
Demolition Shears										
S340 (fits 322/325/330)										
S365 (fits 330/345)										
S390 (fits 365/385)										
Demolition Grapples										
G315 (fits 322/325)										
G320 (fits 325/330)										

Closure Cost Estimate Labor Rates

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022
File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12.xlsm
Cost Estimate Type: Surety
Cost Basis: Southern Nevada - Adjusted for Arizona

Color Code Key					
User Input - Direct Input	Direct Input				
User Input - Pull Down List	Pull Down Selection				
Program Constant (can override)	Alternate Input				
Program Calculated Value	Locked Cell - Formula or Reference				

ZONE ADJUSTMENTS		
Cost Basis/Project Region	Southern Nevada - Adjusted for Arizona	Clark, Esmeralda, Lincoln and Nye Counties - Adjusted for Pima County, AZ
Power Equipment Operators	Zone A	\$0.00
Truck Drivers	Zone A	\$0:00
Laborers	Zone A	\$0.00
INDIRECT COSTS		
Unemployment (%)	3.00%	
Retirement/SS/Medicare (%)	7.65%	
Workman's Compensation (%)	7.60%	
Other Indirects		
State Payroll Tax (13),(15),(17),(1	0.80%	
Total Other Indirects	0.80%	

	0.000/									
Total Other Indirects	0.80%									
HOURLY LABOR RATE	TABLE									
Other Equipment										
420D 4WD Backhoe	Group 6	\$52.14	\$0.00	\$52.14	\$27.65	\$1.56	\$3.99	\$3.96	\$0.42	\$89.7
428D 4WD Backhoe	Group 6	\$52.14	\$0.00	\$52.14	\$27.65	\$1.56	\$3.99	\$3.96	\$0.42	\$89.7
CS533E Vibratory Roller	Group 4	\$51.92	\$0.00	\$51.92	\$27.65	\$1.56	\$3.97	\$3.95	\$0.42	\$89.4
CS633E Vibratory Roller					\$27.65					
CP533E Sheepsfoot Compactor					\$27.65					
CP633E Sheepsfoot Compactor					\$27.65					
Light Truck - 1.5 Ton					\$27.65					
Supervisor's Truck					\$27.65					
Flatbed Truck					\$27.65					
Air Compressor + tools	Group 1	\$49.19	\$0.00	\$49.19	\$27.65	\$1.48	\$3.76	\$3.74	\$0.39	\$85.8
Welding Equipment	Group 3	\$31.31	\$0.00	\$31.31	\$27.65	\$0.94	\$2.40	\$2.38	\$0.25	\$64.6
Heavy Duty Drill Rig	Group 12	\$52.54	\$0.00	\$52.54	\$27.65	\$1.58	\$4.02	\$3.99	\$0.42	\$89.7
Pump (plugging) Drill Rig	Group 12	\$52.54	\$0.00	\$52.54	\$27.65	\$1.58	\$4.02	\$3.99	\$0.42	\$89.7
Concrete Pump	Group 12	ψ02.04	ψ0.00	Ψ32.04	\$27.65	\$1.00	Q4.0Z	φ5.55	90.42	Ψ00.1
Gas Engine Vibrator	Group 3A	\$31.81	\$0.00	\$31.81	\$27.65	\$0.95	\$2.43	\$2,42	\$0.25	\$65.5
Generator 5KW	Gloup on	ψ01.01	ψ0.00	ψ51,01	\$27.65	ψ0.00	ψ <u>z</u> .+ο	Ψ2.72	90.23	Ψ00.0
HDEP Welder (pipe or liner)					\$27.65					
5 Ton Crane	Group 6	\$52.14	\$0.00	\$52.14	\$27.65	\$1.56	\$3.99	\$3.96	\$0.42	\$89.7
20 Ton Crane	Group 6	\$52.14	\$0.00	\$52.14	\$27.65	\$1.56	\$3.99	\$3.96	\$0.42	\$89.7
50 Ton Crane	Group 6	\$52.14	\$0.00	\$52.14	\$27.65	\$1.56	\$3.99	\$3.96	\$0.42	\$89.7
120 Ton Crane	Group 6	φ32.14	\$0.00	\$02.14	\$27.65	\$1.30	\$9.99	φς.90	φυ.42	\$09.7
(1) Equipment Type: (2) Equipment Operator Source:	Catepillar model or equivaler D-B ENGI0012-005 10/1/202									
(3) Zone Basis:	From Tucson City Hall									
Truck Drivers (\$/hr) (4)										
725	Dump Truck Driver	\$31.31	\$0.00	\$31.31	\$31.16	\$0.94	\$2.40	\$2.38	\$0.25	\$68.4
730	Dump Truck Driver	\$31.31	\$0.00	\$31.31	\$31.16	\$0.94	\$2.40	\$2.38	\$0.25	\$68.4
735	Dump Truck Driver	\$31.31	\$0.00	\$31.31	\$31.16	\$0.94	\$2.40	\$2.38	\$0.25	\$68.4
740	Dump Truck Driver	\$31.31	\$0.00	\$31.31	\$31.16	\$0.94	\$2.40	\$2.38	\$0.25	\$68.4
769D	Dump Truck Driver	\$31.31	\$0.00	\$31.31	\$31.16	\$0.94	\$2.40	\$2.38	\$0.25	\$68.4
773E					\$31.16					
777D	Dump Truck Driver	\$31.31	\$0.00	\$31.31	\$31.16	\$0.94	\$2.40	\$2.38	\$0.25	\$68.4
785C					\$31.16					
793C					\$31.16					
797B					\$31.16				000000000000000000000000000000000000000	8666666
613E (5,000 gal) Water Wagon	141414141414141	\$31.31	\$0.00	\$31.31	\$31.16	\$0.94	\$2.40	\$2.38	\$0.25	\$68.4
621E (8,000 gal) Water Wagon		\$31.31	\$0.00	\$31.31	\$31.16	\$0.94	\$2.40	\$2.38	\$0.25	\$68.4
777D Water Truck					\$31.16					
785C Water Truck					\$31.16					
Dump Truck (10-12 yd3)	Dump Truck Driver	\$31.31	\$0.00	\$31.31	\$31.16	\$0.94	\$2.40	\$2.38	\$0.25	\$68.4
					·					
NOTES:	D-B LABO0872-002 7/2/202									
(4) Truck Driver Source:	From Tucson City Hall									
(5) Zone Basis:	Tom Tucson City Hall									

5/4/2022
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Closure Cost Estimate Labor Rates

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022
File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE_Cost_data-USR_1_12.xlsm
Cost Estimate Type: Surety
Cost Basis: Southern Nevada - Adjusted for Arizona

Color Code Key	
User Input - Direct Input	Direct Input
User Input - Pull Down List	Pull Down Selection
Program Constant (can override)	Alternate Input
Program Calculated Value	Locked Cell - Formula or Reference

ZONE AD INCTACNTO		
ZONE ADJUSTMENTS		
Cost Basis/Project Region	Southern Nevada - Adjusted for Arizona	Clark, Esmeralda, Lincoln and Nye Counties - Adjusted for Pima County, AZ
Power Equipment Operators	Zone A	::::\$0:00::::
Truck Drivers	Zone A	\$0.00
Laborers	Zone A	\$0.00
INDIRECT COSTS		
Unemployment (%)	3.00%	
Retirement/SS/Medicare (%)	7.65%	
Workman's Compensation (%)	7.60%	
Other Indirects		
State Payroll Tax (13),(15),(17),(1	0.80%	
Total Other Indirects	0.80%	

	141414141414141									İ
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1									
Total Other Indirects	0.80%									J
HOURLY LABOR RATE	ETABLE									
Laborers (\$/hr) (6,7)										
General Laborer	Group 1	\$31.00	\$0.00	\$31.00	\$31.16	\$0.93	\$2.37	\$2.36	\$0.25	\$68.0
Skilled Laborer	Group 2	\$31.21	\$0.00	\$31.21	\$31.16	\$0.94	\$2.39	\$2.37	\$0.25	\$68.3
Driller's Helper	Group 5	\$31.50	\$0.00	\$31.50	\$31.16	\$0.95	\$2.41	\$2.39	\$0.25	\$68.6
Rodmen (reinforcing concrete)	Group 3A	\$31.81	\$0.00	\$31.81	\$31.16	\$0.95	\$2.43	\$2.42	\$0.25	\$69.0
Cement finisher	Group 5	\$31.50	\$0.00	\$31.50	\$31.16	\$0.95	\$2.41	\$2.39	\$0.25	\$68.6
Carpenter		\$47.23	\$0.00	\$47.23	\$17.98	\$1.42	\$3.61	\$3.59	\$0.38	\$74.2
NOTES: (6) Laborer Source	D-B LABO0872-002 7/2/2	021								
	в.									
(7) Carpenter Source (8) Zone Basis	в.	.020								
	5.	(40) (4)								
Project Management a	nd Technical Lal	bor (\$/hr) (9)								
Project Manager		\$91.69		\$91.69	\$31.16	\$2.75	\$7.01	\$6.97	\$0.73	
Foreman		\$84.94		\$84.94	\$31.16	\$2.55	\$6.50	\$6.46	\$0.68	\$132.2
Field Geologist/Engineer		\$109.94		\$109.94	\$31.16	\$3.30	\$8.41	\$8.36	\$0.88	\$162.0
Field Tech/Sampler		\$76.11		\$76.11	\$31.16	\$2.28	\$5.82	\$5.78	\$0.61	\$121.7
Range Scientist		\$97.25		\$97.25	\$31.16	\$2.92	\$7.44	\$7.39	\$0.78	\$146.9
Senior Planning Engineer					\$31.16					
Project Engineer					\$31.16					
Mechanic/Fitter					\$31.16					
					\$31.16					
					\$31.16					
					\$31.16					
					\$31.16					
				000000000000000000000000000000000000000						
										100000000000000000000000000000000000000
NOTES: (9) Project Manager:	RS Means 2020 Q2 (01 3	1 1320)								
(9) Foreman Source										
(9) Techical Labor Source										
Other Labor Source	ю.									
Other Labor Source	_									
†Additional User Marku										
(These are added by the user to the										
base rate to account for site-speci										

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Monthly Rental Basis: 160 hrs month

	Monthly			
EQUIPMENT TYPE (1)	Owner/Rental Rate	Equipment Hourly Rate	Fuel/Lube/ Wear	Total Rate
Bulldozers	11415	11440		Total Hato
D6R	\$10,605.00	\$66.28	\$40.47	\$106.7
D6R w/ Winch	ψ10,000.00	Ψ00.20	\$27.66	\$27.6
D7R	\$11,575.00	\$72.34	\$46.01	\$118.3
D8R	\$22,030.00	\$137.69	\$61.27	\$198.9
D9R	\$29,580.00	\$184.88	\$87.91	\$272.7
D10R	\$41,000.00	\$256.25	\$112.39	\$368.6
D11R	\$64,000.00	\$400.00	\$164.26	\$564.2
Wheeled Dozers				
824G			\$47.58	\$47.5
834G			\$55.77	\$55.
844			\$66.39	\$66.3
854G			\$84.09	\$84.0
Motor Graders				
120H	\$9,790.00	\$61.19	\$38.75	\$99.9
14G/H	\$14,075.00	\$87.97	\$57.46	\$145.4
16G/H	\$22,000.00	\$137.50	\$71.27	\$208.
24M			\$68.60	\$68.
Track Excavators				
312C	\$5,380.00	\$33.63	\$16.71	\$50.
320C	\$6,070.00	\$37.94	\$30.99	\$68.
325C	\$8,490.00	\$53.06	\$39.76	\$92.
330C	\$11,015.00	\$68.84	\$48.52	\$117.
345B	\$14,565.00	\$91.03	\$61.19	\$152.
365BL			\$58.42	\$58.4
385BL	\$22,950.00	\$143.44	\$97.41	\$240.8
Scrapers				
631G	\$25,295.00	\$158.09	\$96.47	\$254.5
637G	\$35,000.00	\$218.75	\$142.51	\$361.2
Wheeled Loaders				
924G	\$4,850.00	\$30.31	\$25.76	\$56.
928G	\$5,300.00	\$33.13	\$29.84	\$62.
950G	\$7,750.00	\$48.44	\$36.40	\$84.
966G	\$11,115.00	\$69.47	\$48.86	\$118.
972G	\$14,075.00	\$87.97	\$54.66	\$142.
980G	\$14,075.00	\$87.97	\$62.60	\$150.
988G	\$23,460.00	\$146.63	\$91.85	\$238.
990			\$75.24	\$75.
992G	\$63,000.00	\$393.75	\$173.19	\$566.
994D			\$159.34	\$159.
L2350			\$292.12	\$292.
Shovels				
PC2000			\$163.76	\$163.
PC3000			\$221.30	\$221.
PC4000			\$309.82	\$309.
PC5500			\$526.69	\$526.
PC8000			\$659.47	\$659.
Hydraulic Hammers				
H-120 (fits 325)	\$5,810.00	\$36.31	\$5.62	\$41.
H-160 (fits 345)	\$12,240.00	\$76.50	\$10.98	\$87.
H-180 (fits 365/385)	\$16,520.00	\$103.25	\$13.01	\$116.
Demolition Shears				
S340 (fits 322/325/330)				\$0.
S365 (fits 330/345)				\$0.
S390 (fits 365/385)				\$0.
Demolition Grapples				
G315 (fits 322/325)				\$0.
G320 (fits 325/330)				\$0.
G330 (fits 345/365)				\$0.0

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Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022
File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Other Equipment	#0.700.00 living	este de la constitución	604.07	
420D 4WD Backhoe	\$2,700.00	\$16.88	\$21.97	\$38.8
428D 4WD Backhoe	\$3,450.00	\$21.56	\$21.84	\$43.4
CS533E Vibratory Roller	\$8,140.00	\$50.88	\$16.60	\$67.4
CS633E Vibratory Roller	2000		\$21.02	\$21.0
CP533E Sheepsfoot Compactor			\$16.60	\$16.6
CP633E Sheepsfoot Compactor			\$21.02	\$21.0
Light Truck - 1.5 Ton	\$4,044.00	\$25.28	\$6.91	\$32.1
Supervisor's Truck	\$3,634.00	\$22.71	\$4.70	\$27.4
Flatbed Truck	\$4,044.00	\$25.28	\$22.31	\$47.5
Air Compressor + tools	\$5,749.00	\$35.93	\$4.43	\$40.3
Welding Equipment	\$3,036.00	\$18.98	\$8.85	\$27.8
Heavy Duty Drill Rig	\$32,802.00	\$205.01	\$53.11	\$258.12
Pump (plugging) Drill Rig	\$32,802.00	\$205.01	\$44.26	\$249.2
Concrete Pump	\$8,470.00	\$52.94	\$44.26	\$97.20
Gas Engine Vibrator	\$554.00	\$3.46	\$4.43	\$7.8
Generator 5KW	\$1,652.00	\$10.33	\$6.64	\$16.9
HDEP Welder (pipe or liner)	\$8,778.00	\$54.86	\$8.85	\$63.7
5 Ton Crane	\$7,779.00	\$48.62	\$13.28	\$61.9
20 Ton Crane	\$11,924.00	\$74.53	\$17.70	\$92.2
50 Ton Crane	\$11,924.00	\$74.53	\$20.80	\$95.3
120 Ton Crane			\$23.02	\$23.0
Trucks				
725	\$15,300.00	\$95.63	\$47.03	\$142.6
730	\$15,300.00	\$95.63	\$49.24	\$144.8
735	\$15,300.00	\$95.63	\$67.32	\$162.9
740	\$15,300.00	\$95.63	\$68.54	\$164.1
769D	\$21,650.00	\$135.31	\$57.92	\$193.2
773E	\$34,025.00	\$212.66	\$76.01	\$288.6
777D	\$55,700.00	\$348.13	\$108.43	\$456.5
785C			\$107.33	\$107.33
793C			\$184.79	\$184.79
797B			\$260.03	\$260.03
613E (5,000 gal) Water Wagon	\$6,630.00	\$41.44	\$35.49	\$76.93
621E (8,000 gal) Water Wagon	\$11,220.00	\$70.13	\$63.24	\$133.36
777D Water Truck	ψ11,220.00	0.000	\$74.14	\$74.14
785C Water Truck			\$107.33	\$107.33
Dump Truck (10-12 yd ³)	\$11,814.00	\$73.84	\$24.05	\$97.8
NOTES:	Ψ11,014.00	φ/ 3.04	Ψ24.00	Ψ37.0
(1) Power Equipment Source:				
	Catepillar model or equivale	nt LeTourneau loade	x Komateu ebovele	
(2) Power Equipment Type: (3) Drilling Equipment Source:	RS Means Heavy Construct		or, Romaisu snovels	•
	RS Means Heavy Construct			
(4) Other Equipment Source:	ING INICATIS FICAVY CONSTRUCT	1011 (2020 QZ)		

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21 MLRP_SRCE_Version 1 4 1 017 NVb 050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm **FUEL, LUBE AND WEAR CALCULATIONS** PM Cost G.E.T Consumption Under carriage or Fuel Use Rate Total Hourly Per Hour⁽¹⁾ Tires (2) **EQUIPMENT TYPE** gal/hr (4) Cost@ **Equipment Cost** 4.43/gal Bulldozers D6R \$7.63 \$5.18 6.25 \$27.66 \$40.47 D6R w/ Winch 6.25 \$27.66 \$27.66 D7R \$7.63 \$5.18 7.50 \$33.20 \$46.01 D8R \$8.05 \$10.07 9.75 \$43.15 \$61.27 D9R \$15.66 14.25 \$87.91 \$9.18 \$63.07 18.00 D10R \$112.39 \$10.80 \$21.92 \$79.67 D11R \$14.71 \$32.26 26.50 \$117.29 \$164.26 Wheeled Dozers 824G \$0.00 10.75 \$47.58 \$47.58 834G \$0.00 12.60 \$55.77 \$55.77 \$0.00 844 15.00 \$66.39 \$66.39 854G \$0.00 19.00 \$84.09 \$84.09 **Motor Graders** \$4.64 \$5.63 \$10.78 4.00 \$17.70 \$38.75 120H 14G/H \$15.58 \$27.66 \$57.46 \$5.78 \$8.43 6.25 16G/H \$6.04 \$10.75 \$21.28 7.50 \$33.20 \$71.27 24M 15.50 \$68.60 \$68.60 Track Excavators 312C \$4.36 \$4.03 1.88 \$8.32 \$16.71 \$4.65 \$30.99 320C \$4.65 4.90 \$21.69 325C \$4.68 \$5.87 6.60 \$29.21 \$39.76 330C \$5.77 \$6.46 8.20 \$36.29 \$48.52 345B \$6.61 10.60 \$46.92 \$7.66 \$61.19 365BL 13.20 \$58.42 \$58.42 \$13.53 385BL \$6.42 17.50 \$77.46 \$97.41 Scrapers \$7.74 \$13.86 \$8.48 15.00 \$66.39 \$96.47 631G 637G \$12.87 \$13.86 \$10.66 23.75 \$105.12 \$142.51 Wheeled Loaders \$4.47 2.75 924G \$3.53 \$5.59 \$12.17 \$25.76 928G \$4.14 \$5.59 \$4.62 3.50 \$15.49 \$29.84 \$4.95 950G \$5.15 \$8.60 4.00 \$17.70 \$36.40 966G \$5.37 \$7.25 \$10.79 5.75 \$25.45 \$48.86 972G \$6.07 \$7.25 \$13.67 6.25 \$27.66 \$54.66 980G 7.50 \$33.20 \$6.07 \$9.67 \$13.67 \$62,60 988G \$11.37 \$12.27 \$14.65 12.10 \$53.55 \$91.85 990 17.00 \$75.24 \$75.24 \$12.59 \$33.63 \$25.17 \$173.19 992G 23.00 \$101.80 994D 36.00 \$159.34 \$159.34 L2350 66.00 \$292.12 \$292.12 Shovels PC2000 37.00 \$163.76 \$163.76 PC3000 50.00 \$221.30 \$221.30 PC4000 70.00 \$309.82 \$309.82 PC5500 119.00 \$526.69 \$526.69 PC8000 149.00 \$659.47 \$659.47 **Hydraulic Hammers** H-120 (fits 325) N/A \$5.62 \$5.62 H-160 (fits 345) N/A \$10.98 \$10.98 \$13.01 H-180 (fits 365/385) \$13.01 N/A **Demolition Shears** S340 (fits 322/325/330) N/A \$0.00 S365 (fits 330/345) N/A \$0.00 S390 (fits 365/385) N/A \$0.00

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE Cost_data-USR_1_12.xlsm

Demolition Grapples						
G315 (fits 322/325)	N/A					\$0.0
G320 (fits 325/330)	N/A					\$0.0
G330 (fits 345/365)	N/A					\$0.0
Other Equipment						
420D 4WD Backhoe	\$4.29	\$0.81	\$3.59	3.00	\$13.28	\$21.9
428D 4WD Backhoe	\$4.06	\$0.81	\$3.69	3.00	\$13.28	\$21.8
CS533E Vibratory Roller				3.75	\$16.60	\$16.60
CS633E Vibratory Roller				4.75	\$21.02	\$21.02
CP533E Sheepsfoot Compactor				3.75	\$16.60	\$16.60
CP633E Sheepsfoot Compactor				4.75	\$21.02	\$21.02
Light Truck - 1.5 Ton		\$0.27		1.50	\$6.64	\$6.9
Supervisor's Truck		\$0.27		1.00	\$4.43	\$4.70
Flatbed Truck		\$1.51		4.70	\$20.80	\$22.3
Air Compressor + tools			N/A	1.00	\$4.43	\$4.43
Welding Equipment			N/A	2.00	\$8.85	\$8.85
Heavy Duty Drill Rig				12.00	\$53.11	\$53.1
Pump (plugging) Drill Rig				10.00	\$44.26	\$44.26
Concrete Pump			N/A	10.00	\$44.26	\$44.20
Gas Engine Vibrator			N/A	1.00	\$4.43	\$4.43
Generator 5KW			N/A	1.50	\$6.64	\$6.64
HDEP Welder (pipe or liner)			N/A	2.00	\$8.85	\$8.85
5 Ton Crane				3.00	\$13.28	\$13.28
20 Ton Crane				4.00	\$17.70	\$17.70
50 Ton Crane				4.70	\$20.80	\$20.80
120 Ton Crane				5.20	\$23.02	\$23.02
Trucks						
725	\$8.53	\$14.47	\$3.22	4.70	\$20.80	\$47.03
730	\$8.53	\$14.47	\$3.22	5.20	\$23.02	\$49.24
735	\$8.53	\$23.04	\$3.22	7.35	\$32.53	\$67.32
740	\$8.53	\$24.26	\$3.22	7.35	\$32.53	\$68.54
769D	\$6.32	\$7.05	\$3.60	9.25	\$40.94	\$57.92
773E	\$7.82	\$12.14	\$4.04	11.75	\$52.01	\$76.0
777D	\$11.19	\$18.59	\$4.51	16.75	\$74.14	\$108.43
785C	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			24.25	\$107.33	\$107.33
793C				41.75	\$184.79	\$184.79
797B				58.75	\$260.03	\$260.03
613E (5,000 gal) Water Wagon	\$5.12	\$3.82		6.00	\$26.56	\$35.49
621E (8,000 gal) Water Wagon	\$7.24	\$8.42		10.75	\$47.58	\$63.24
777D Water Truck				16.75	\$74,14	\$74.14
785C Water Truck				24.25	\$107.33	\$107.33
Dump Truck (10-12 yd3) (5)	N/A	\$1.03	N/A	5.20	\$23.02	\$24.05
Notes:						
(1) PM Sour	ce: Cashman Equipment Comp	pany (July 2020) un	less noted			
(2) Undercarriage Soun		- · · · · · · · · · · · · · · · · · · ·		-		
(3) G.E.T. Soun			less noted			
(4) Fuel Use Soun				r smaller vehicles		
(5) Dump Truck Oper. Cost Sour						
(o) Samp Track Oper. Oost Ood		/				

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Equipment	Tire Size	# of Tires Per Piece of Equipment	Cost Per Tire	Tire Cost (1)(2)	Life Expectency Hours (Low/Zone A) (3)	Tire Cost per Hour
Bulldozers						
D6R			N/A			
D6R w/ Winch			N/A			
D7R			N/A			
D8R			N/A			
D9R			N/A			
D10R			N/A			
D11R			N/A			
Wheeled Dozers						
824G	29.5R25	4		\$0.00	3,500	\$0.0
834G	35/65-R33	4		\$0.00	3,500	\$0.0
844	45/65-R39	4		\$0.00	3,500	\$0.0
854G	45/65-R45	4		\$0.00	3,500	\$0.0
Motor Graders					.,	
120H	13PR24	6	\$3,282.50	\$19,695.00	3,500	\$5.6
14G/H	20.5R25	6	\$4,919.50	\$29,517.00	3,500	\$8.4
16G/H	23.5R25	6	\$6,272.90	\$37,637.40	3,500	\$10.7
24M	23.5R25	6	ψ0,272.30	\$0.00	3,500	φ10.7
Track Excavators	25.51\25			φ0.00	3,300	
		1	NI/A	****************		
312C			N/A			
320C			N/A			
325C			N/A			
330C			N/A			
345B			N/A			
365BL			N/A			
385BL			N/A			
Scrapers		· · · · · · · · · · · · · · · · · · ·				
631G	37.25R35	4	\$13,862.80	\$55,451.20	4,000	\$13.8
637G	37.25R35	4	\$13,862.80	\$55,451.20	4,000	\$13.8
Wheeled Loaders						
924G	17.5R25	4	\$6,292.00	\$25,168.00	4,500	\$5.5
928G	17.5R25	4	\$6,292.00	\$25,168.00	4,500	\$5.5
950G	26.5R25	4	\$5,565.40	\$22,261.60	4,500	\$4.9
966G	26.5R25	4	\$8,160.20	\$32,640.80	4,500	\$7.2
972G	26.5R25	4	\$8,160.20	\$32,640.80	4,500	\$7.2
980G	29.5R25	4	\$10,873.40	\$43,493.60	4,500	\$9.6
988G	35/65-33	4	\$13,808.70	\$55,234.80	4,500	\$12.2
000					4 500	
990	41.25/70-39	4		\$0.00	4,500	
992G	41.25/70-39 45/65R45	4 4	\$28,316.00	\$0.00 \$113,264.00	4,500 4,500	\$25.1
			\$28,316.00			\$25.1
992G	45/65R45	4	\$28,316.00	\$113,264.00	4,500	\$25.1
992G 994D L2350	45/65R45 55/85R57	4 4	\$28,316.00	\$113,264.00 \$0.00	4,500 4,500	\$25.1
992G 994D L2350	45/65R45 55/85R57	4 4	\$28,316.00 N/A	\$113,264.00 \$0.00	4,500 4,500	\$25.1
992G 994D L2350 Shovels	45/65R45 55/85R57	4 4		\$113,264.00 \$0.00	4,500 4,500	\$25.1
992G 994D L2350 Shovels PC2000	45/65R45 55/85R57	4 4	N/A	\$113,264.00 \$0.00	4,500 4,500	\$25.1
992G 994D L2350 Shovels PC2000 PC3000 PC4000	45/65R45 55/85R57	4 4	N/A N/A N/A	\$113,264.00 \$0.00	4,500 4,500	\$25.1
992G 994D L2350 Shovels PC2000 PC3000 PC4000 PC5500	45/65R45 55/85R57	4 4	N/A N/A N/A N/A	\$113,264.00 \$0.00	4,500 4,500	\$25.1
992G 994D L2350 Shovels PC2000 PC3000 PC4000 PC5500 PC8000	45/65R45 55/85R57	4 4	N/A N/A N/A	\$113,264.00 \$0.00	4,500 4,500	\$25.1
992G 994D L2350 Shovels PC2000 PC3000 PC4000 PC5500 PC8000 Hydraulic Hammers	45/65R45 55/85R57	4 4	N/A N/A N/A N/A N/A	\$113,264.00 \$0.00	4,500 4,500	\$25.1
992G 994D L2350 Shovels PC2000 PC3000 PC4000 PC5500 PC8000 PC8000 Hydraulic Hammers H-120 (fits 325)	45/65R45 55/85R57	4 4	N/A N/A N/A N/A N/A	\$113,264.00 \$0.00	4,500 4,500	\$25.1
992G 994D L2350 Shovels PC2000 PC3000 PC4000 PC5500 PC8000 Hydraulic Hammers H-120 (fits 325) H-160 (fits 345)	45/65R45 55/85R57	4 4	N/A N/A N/A N/A N/A	\$113,264.00 \$0.00	4,500 4,500	\$25.1
992G 994D L2350 Shovels PC2000 PC3000 PC4000 PC5500 PC8000 Hydraulic Hammers H-120 (fits 325) H-160 (fits 345) H-180 (fits 365/385)	45/65R45 55/85R57	4 4	N/A N/A N/A N/A N/A	\$113,264.00 \$0.00	4,500 4,500	\$25.1
992G 994D L2350 Shovels PC2000 PC3000 PC4000 PC5500 PC6000 Hydraulic Hammers H-120 (fits 325) H-160 (fits 345) H-180 (fits 365/385) Demolition Shears	45/65R45 55/85R57	4 4	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	\$113,264.00 \$0.00	4,500 4,500	\$25.1
992G 994D L2350 Shovels PC2000 PC3000 PC4000 PC5500 PC8000 Hydraulic Hammers H-120 (fits 325) H-160 (fits 345) H-180 (fits 365/385) Demolition Shears S340 (fits 322/325/330)	45/65R45 55/85R57	4 4	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	\$113,264.00 \$0.00	4,500 4,500	\$25.1
992G 994D L2350 Shovels PC2000 PC3000 PC4000 PC5500 PC8000 Hydraulic Hammers H-120 (fits 325) H-160 (fits 345) H-180 (fits 365/385) Demolition Shears S340 (fits 322/325/330) S365 (fits 330/345)	45/65R45 55/85R57	4 4	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	\$113,264.00 \$0.00	4,500 4,500	\$25.1
992G 994D L2350 Shovels PC2000 PC3000 PC4000 PC5500 PC8000 Hydraulic Hammers H-120 (fits 325) H-180 (fits 345) H-180 (fits 365/385) Demolition Shears S340 (fits 322/325/330) S365 (fits 330/345) S390 (fits 365/385)	45/65R45 55/85R57	4 4	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	\$113,264.00 \$0.00	4,500 4,500	\$25.1
992G 994D L2350 Shovels PC2000 PC3000 PC4000 PC5500 PC8000 Hydraulic Hammers H-120 (fits 325) H-180 (fits 345) H-180 (fits 345) Sa40 (fits 322/325/330) S365 (fits 330/345) S390 (fits 365/385) Demolition Grapples	45/65R45 55/85R57	4 4	N/A N/A N/A N/A N/A N/A N/A N/A	\$113,264.00 \$0.00	4,500 4,500	\$25.1
992G 994D L2350 Shovels PC2000 PC3000 PC4000 PC5500 PC8000 Hydraulic Hammers H-120 (fits 325) H-160 (fits 345) H-180 (fits 365/385) Demolition Shears S340 (fits 322/325/330) S365 (fits 330/345)	45/65R45 55/85R57	4 4	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	\$113,264.00 \$0.00	4,500 4,500	\$25.1

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Other Equipment						
420D 4WD Backhoe	340/80R18-19.5LR24	2	\$1,221.10	\$2,442.20	3,000	\$0.8
428D 4WD Backhoe	340/80R18-16.9R28	2	\$1,221.10	\$2,442.20	3,000	\$0.8
CS533E Vibratory Roller			N/A			
CS633E Vibratory Roller			N/A			
CP533E Sheepsfoot Compactor			N/A			
CP633E Sheepsfoot Compactor			N/A			
Light Truck - 1.5 Ton		4	206.2	\$824.80	3,000	\$0.2
Supervisor's Truck		4	206.2	\$824.80	3,000	\$0.2
Flatbed Truck		22	206.2	\$4,536.40	3,000	\$1.5
Air Compressor + tools			N/A			
Welding Equipment			N/A			
Heavy Duty Drill Rig		4		\$0.00	3,000	
Pump (plugging) Drill Rig		4		\$0.00	3,000	
Concrete Pump			N/A			
Gas Engine Vibrator			N/A			
Generator 5KW			N/A			
HDEP Welder (pipe or liner)			N/A			
5 Ton Crane		4		\$0.00	3,000	
20 Ton Crane		4		\$0.00	3,000	
50 Ton Crane		6		\$0.00	3,000	
120 Ton Crane		6		\$0.00	3,000	
Trucks						
725	23.5R25	6	\$4,824.30	\$28,945.80	2,000	\$14.4
730	23.5R25	6	\$4,824.30	\$28,945.80	2,000	\$14.4
735	26.5R25	6	\$7,681.00	\$46,086.00	2,000	\$23.0
740	29.5R25	6	\$8,086.20	\$48,517.20	2,000	\$24.2
769D	18.00R33	6	\$7,054.80	\$42,328.80	6,000	\$7.0
773E	24.00R35	6	\$10,119.20	\$60,715.20	5,000	\$12.1
777D	27.00R49	6	\$15,494.70	\$92,968.20	5,000	\$18.5
785C	33.00R51	6		\$0.00	4,000	
793C	40.00R57	6		\$0.00	4,000	
797B	40.00R57	6		\$0.00	4,000	
613E (5,000 gal) Water Wagon	23.5R25	6	\$3,818.10	\$22,908.60	6,000	\$3.8
621E (8,000 gal) Water Wagon	33.25R29	6	\$11,223.35	\$67,340.10	8,000	\$8.4
777D Water Truck	27.00R49	6		\$0.00	5,000	
785C Water Truck	33.00R51	6		\$0.00	4,000	
Dump Truck (10-12 yd3)		10	\$619.90	\$6,199.00	6,000	\$1.0
Notes:			710.00	ACCOUNT PRITTING	-,	Landard Control of the Control of th
(1) Unit Cost Basis:						
(2) Cost Basis:						*
(3) Tire Cost Source:						<u> </u>
(4) Tire Wear Source:	Caterpillar Handbook, Ed	ition 35: CH 20				0404

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Revegetation Materials			
	Seed Mixes		
Seed Mix	Descript	tion	Cost/Acre
None	Г		55555555555555555555555
Mix 1	Basins		\$302.50
Mix 2	Low Hills		\$302.30
Mix 3	Uplands		\$363.00
Mix 4			\$393.25
User Mix 1	Riparian or Custom		\$393.23
User Mix 2			
User Mix 3			
User Mix 4			
COOL WILK 1	Cost/lb	lbs/Acre	Cost/Acre
User Mix 5 (from Seed Mix sheet)	#DIV/0!	\$0.00	\$0.00
	Mulch		
ltem	Mulch Cost/lb	lbs/Acre	Cost/Acre
		lbs/Acre	Cost/Acre
None	Cost/lb	lbs/Acre	Cost/Acre
None Straw Mulch	Cost/lb \$0.17	lbs/Acre	Cost/Acre
None Straw Mulch Hydro Mulch	Cost/lb	lbs/Acre	Cost/Acre
None Straw Mulch Hydro Mulch	Cost/lb \$0.17	lbs/Acre	Cost/Acre
None Straw Mulch Hydro Mulch	Cost/lb \$0.17	lbs/Acre	Cost/Acre
None Straw Mulch Hydro Mulch	Cost/lb \$0.17	Ibs/Acre	Cost/Acre
None Straw Mulch Hydro Mulch	Cost/lb \$0.17	lbs/Acre	Cost/Acre
None Straw Mulch Hydro Mulch	Cost/lb \$0.17	lbs/Acre	Cost/Acre
None Straw Mulch Hydro Mulch	\$0.17 \$0.25		
None Straw Mulch Hydro Mulch Timber Mulch	Cost/lb \$0.17		
None Straw Mulch Hydro Mulch Timber Mulch	\$0.17 \$0.25		
None Straw Mulch Hydro Mulch Timber Mulch	\$0.17 \$0.25		
None Straw Mulch Hydro Mulch Timber Mulch	\$0.17 \$0.25		

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Amendments			
ltem	Cost/lb	lbs/Acre	Cost/Acre
None			
Organic Matter	\$0.70		\$0.00
Treated Sludge			
Chemical	\$0.59		\$0.00
Notes:	Western Nevada Supp	ly \$29.34 per 50lb	bag 15-15-15 (June 202

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ement	\$7.57	CV	\$36.05
rout (Low Grade Bentonite)	\$8.85	су	\$42.14
ert Material/Cuttings		сy	
		су	
		су	

Description	Units	Cost/unit
•	<u>'</u>	
Monitor Well Pump	ea.	\$2,788.41
Sampling Supplies	ea.	\$6.51
Water Analysis (Profile I) (1)	ea.	\$411.00
each Test (MWMP) w/ analysis	ea.	\$483.40
ABA + S speciation	ea.	\$150.00
NAD Cyanide in water	ea.	\$56.00
Water Analysis (Profile II) (1)	ea.	\$461.00
	ea.	
4) MET Lab Dana Navada (lish 20)	20)	
1) WET Lab, Reno, Nevada (July 202		
Well pump and Sample supply costs a Driginal source unknown.	aujusieu io 2020.	
onginal source unknown.		

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Fuel, Etc.			
Description	Units	Cost/unit	
Off-road Diesel - delivered (1)	\$/gal	\$4.426	
Pickup Truck Mileage	\$/mi	\$0.580	
Electical Power	\$/kWh	\$0.080	
(1) Source: AZ Tucson Fuel Cost, a			
Source: Federal Government Vehi Source: NV Energy (July 2020) \$0.		20	
Source. NV Energy (July 2020) \$0.	01012		

	Slopes			
Disturbance Type	Seed Application Method	Labor	Equipment	Total
		Cost/Acre	Cost/Acre	Cost/Acre
Waste Rock Dumps	Mechanical Broadcast	\$140.00	\$50.00	\$190.00
Heap Leach	Mechanical Broadcast	\$140.00	\$50.00	\$190.00
Tailings	Hand Broadcast	\$140.00	\$50.00	\$190.00
Quarries & Borrow Pits	Mechanical Broadcast	\$140.00	\$50.00	\$190.00
	Flat Areas and Und	lifferentiated		
Disturbance Type	Seed Application Method	Labor	Equipment	Total
		Cost/Acre	Cost/Acre	Cost/Acre
Exploration Trenches	Mechanical Broadcast	\$140.00	\$50.00	\$190.00
Exploration Roads	Mechanical Broadcast	\$140.00	\$50.00	\$190.00
Waste Rock Dumps	Mechanical Broadcast	\$140.00	\$50.00	\$190.00
Heap Leach	Mechanical Broadcast	\$140.00	\$50.00	\$190.00
Tailings	Mechanical Broadcast	\$140.00	\$50.00	\$190.00
Quarries & Borrow Pits	Mechanical Broadcast	\$140.00	\$50.00	\$190.00
Roads	Mechanical Broadcast	\$140.00	\$50.00	\$190.00
Pits	Mechanical Broadcast	\$140.00	\$50.00	\$190.0
Haul Material	Mechanical Broadcast	\$140.00	\$50.00	\$190.00
Foundations & Buildings	Mechanical Broadcast	\$140.00	\$50.00	\$190.00
Sediment & Drainge Control	Mechanical Broadcast	\$140.00	\$50.00	\$190.0
Process Ponds	Mechanical Broadcast	\$140.00	\$50.00	\$190.00
Landfills	Mechanical Broadcast	\$140.00	\$50.00	\$190.0
Yards, Etc.	Mechanical Broadcast	\$140.00	\$50.00	\$190.0
Revegetation Maintenance	Mechanical Broadcast	\$140.00	\$50.00	\$190.0

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evegetation										
	Means Number	Unit	Crew	Daily Output	Daily Output User	Materials	Labor	Equipment	Total	Notes
Seeding - Broadcast Hand (1)		acres	-1411				\$140.00	\$50.00	\$190.00	
Seeding - Broadcast Mechanical (1)		acres					\$140.00	\$50.00	\$190.00	
Seeding - Drill (1)		acres		365			\$140.00	\$120.00	\$260.00	
Seeding - Hydroseeding (1)				365			\$250.00	\$150.00	\$400.00	
Shrub Planting - bare root 6-10 in (150- 250mm) (2)	02910-400-0561	ea.	1 Clab	365					\$0.00	
Tree Planting - bare root 11-16 in (270- 400mm) (3)	02910-400-0562	ea.	1 Clab	260					\$0.00	
Cactus Planting (4)		ea.	1 Clab						\$0.00	
NOTES:										
(1) Seeding Source: S	ource: Kelley Erosion	Control (Ju	y 2020).							
(2) Shrub Source:										
(3) Tree Source:										
(4) Cactus Source:										
uilding and Wall Demolition										
Hourly productivity rates and crew composition from Means I	Heavy Construction 20	05 Edition	by permiss	sion of R.S.M	leans/Reed Cons	struction Data				
All equipment, labor and material unit costs are from Labor C	Costs, Equipment Cost	s and Mate	rial Costs	spreadsheets	3					
	Means Number	Unit	Crew	Daily Output	Daily Output User	Labor	Equipment	Premium	Total	Notes

				Daily	Daily Output					
	Means Number	Unit	Crew	Output	User	Labor	Equipment	Premium	Total	Notes
Building Demolition										
Lg. steel	02220-110-0012	C.F.	B-8	21500		\$0.22	\$0.13		\$0.35	
Lg. concrete	02220-110-0050	C.F.	B-8	15300		\$0.31	\$0.18		\$0.49	
Lg. masonry	02220-110-0080	C.F.	B-8	20100		\$0.23	\$0.14		\$0.37	
Lg. mixed	02220-110-0100	C.F.	B-8	20100		\$0.23	\$0.14		\$0.37	
Sm. steel	02220-110-0500	C.F.	B-3	14800		\$0.27	\$0.14		\$0.41	
Sm. concrete	02220-110-0600	C.F.	B-3	11300		\$0.35	\$0.18		\$0.53	
Sm. masonry	02220-110-0650	C.F.	B-3	14800		\$0.27	\$0.14		\$0.41	
Sm. wood	02220-110-0700	C.F.	B-3	14800		\$0.27	\$0.14		\$0.41	
Wall Demolition										
Block 4 in (100 mm) thick	02220-130-2000	S.F.	1 Clah	180		\$3.03	\$0.00	20%	\$3.64	

Wall Demolition									
Block 4 in (100 mm) thick	02220-130-2000	S.F.	1 Clab	180	\$3.03	\$0.00	20%	\$3.64	
Block 6 in (150 mm) thick	02220-130-2040	S.F.	1 Clab	170	\$3.20	\$0.00	20%	\$3.84	
Block 8 in (200 mm) thick	02220-130-2080	S.F.	1 Clab	150	\$3.63	\$0.00	20%	\$4.36	
Block 12 in (300 mm) thick	02220-130-2100	S.F.	1 Clab	150	\$3.63	\$0.00	20%	\$4.36	
Conc 6 in (150 mm) thick	02220-130-2400	S.F.	B-9	160	\$24.52	\$2.02	10%	\$29.19	
Conc 8 in (200 mm) thick	02220-130-2420	S.F.	B-9	140	\$28.02	\$2.31	10%	\$33.36	
Conc 10 in (250 mm) thick	02220-130-2440	S.F.	B-9	120	\$32.69	\$2.69	10%	\$38.92	
Conc 12 in (300 mm) thick	02220-130-2500	S.F.	B-9	100	\$39.23	\$3.23	10%	\$46.71	

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Waste Disposal									
Unit rates from Means Heavy Construction 2006 Edition by	y permission of R.S.Mean	s/Reed C	onstruction	Data .					
				Daily					
	Means Number	Unit	Crew	Output	Materials	Labor	Equipment	Total	Notes
Rubbish Handling									
Dumpster delivery (average for all sizes)	02220-350-0910	ea.			\$51.50			\$51.50	
Haul (average for all sizes)	02220-350-0920	ea.			\$161.00			\$161.00	
Rent per month (average for all sizes)	02220-350-0940	ea.			\$55.00			\$55.00	
Disposal fee per ton (tonne) (average for all sizes)	02220-350-0950	ton			\$60.50			\$60.50	
NOTES:									
	R.S. Means Heavy Cons								
Dumpster Disposal Fee Source:		truction (2	2020 Q2).						
Hazardous Material Handling - Solids (+ Liquid	ds in drums)								
Pickup fees 55 gal (200 L). drums		ea.			\$251.00			\$251.00	
Bulk material (average)		ton			\$409.50			\$409.50	
Transport - truck load (80 drums, 25 cy (m3), 18 tons)		mile			\$5.88			\$5.88	
Dump site solid disposal fee	02110-300-6000/6020	ton			\$288.50			\$288.50	
NOTES:									
Solid Handling Cost Source									
Solid Disposal Fee Source:	2019 Q2 R.S. Means He	avy Const	. ave. 02 8	1					
Hazardous Material Handling - Liquids									
Vacuum Truck Pickup (2200 gal/8300 L)		hr.			\$147.00			\$147.00	
Vacuum Truck Pickup (5000 gal/19000 L)	02110-300-3120	hr.			\$213.00			\$213.00	
Dump site liquid disposal fee	02110-300-6000/6020	ton			\$288.50			\$288.50	
NOTES:									
Liquid Handling Cost Source									
Liquid Disposal Fee Source:	2020 Q2 R.S. Means He	avy Const	. ave. 02 8	1					
Hydrocarbon Contaminated Soils (HCS)									
Insitu Biotreatment	02115-200-2020/2021	C.Y.			\$17.64			\$17.64	
HCS disposal fee	02115-200-2050/2055	C.Y.			\$278.50			\$278.50	
NOTES:									
Insitu Treatement Cost Source									
HCS Disposal Fee Source:	2020 Q2 R.S. Means He	avy Const	t., ave. 02 6	35					

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Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Weekly dumpster rental rates from Means Heavy Construct	ion 2005 Edition with no		. D. C. Mass	/Dd C	antinian Data					
, ,		ermission by	/ K.S.Ivieai	is/Reed Col	nstruction Data .					
Veekly dumpster rental rates include haul to off-site disposal	i site and disposal fees									
				Daily						
	Means Number	Unit	Crew	Output	Materials	Labor	Equipment	Premium	Total	Notes
einforced Concrete Bulkheads and Shaft Cove	ers									
Grade walls - 15 in (400mm) thick, 8 ft (2.5m) high	03310-240-4300	C.Y.	C-14D	80.02	\$163.00	\$187.60	\$13.25		\$363.85	includes reinforcing
Grade walls - 15 in (400mm) thick, 12 ft (3.7m) high	03310-240-4350	C.Y.	C-14D	26.2	\$163.00	\$572.96	\$40.46		\$776.42	includes reinforcing
Elevated conc, 1-way beam & slab - 15ft (4.6m) span	03310-240-2700	C.Y.	C-14B	20.59	\$278.00	\$751.72	\$51.48		\$1,081.20	includes reinforcing
Elevated conc, 1-way beam & slab - 25ft (7.5m) span.	03310-240-2750	C.Y.	C-14B	28.36	\$265.00	\$545.77	\$37.38		\$848.15	includes reinforcing
Bat Gate/Foam Plug Installation										
					T I					
Bat Gate (5)		ea.			\$3,367.61					materials \$/ea. Installed
Culvert Gate (5)		ea.			\$6,735.21					materials \$/ea. Installed
Adit Foam Plug (6)		ea./C.Y.			\$336.76					materials \$/cy placed
Production Opening Foam Plug (6)		ea./C.Y.			\$336.76					materials \$/cy placed
NOTES:										• •
(5) Bat Gate Source:	NV BLM, 2/2006: 8 hr +	1hr mob/de	mob + 1hr	setup per o	ate (adjusted to 2	020)				
(6) Foam Plug Source:							na (adjusted to 202	20)		

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Misc. Linear Projects										
Hourly productivity rates and crew composition from Means	Heavy Construction 20	05 Edition	by permiss	ion of R.S.M	leans/Reed Cons	truction Data .				
All equipment, labor and material unit costs are from Labor	Costs, Equipment Cost	s and Mate	erial Costs	spreadsheets	3					
				Daily						
	Means Number	Unit	Crew	Output	Materials	Labor	Equipment	Premium	Total	Notes
encing Installation										
Barbed 3-strand	02820-170-1650	L.F.	B-80A	760	\$0.51	\$2,15	\$0.34	414141414141414	\$3.00	
Barbed 4-strand	extrapolated	L.F.	B-80A	570	\$0.68	\$2.87	\$0.45		\$4.00	
Barbed 5-strand	02820-130-0920	L.F.	B-80A	456	\$0.85	\$3.58	\$0.56		\$4.99	
Chain link 8-10ft (2.5-3m) Install	02820-130-0920	L.F.	B-80C	180	\$38.00	\$9.08	\$1.43		\$48.51	
Wood stockade fence 6 ft (2 m) high - Install	02820-510-1240	L.F.	B-80C	150	\$16.00	\$10.89	\$1.72		\$28.61	
\	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
encing Removal					· · · · · · · · · · · · · · · · · · ·					
Barbed 3-strand Removal	02220-220-1600	L.F.	2 Clab	430	l l	\$2.53	\$0.60		\$3.13	
Barbed 4-strand Removal	extrapolated	L.F.	2 Clab	355	1	\$3.07	\$0.73		\$3.80	
Barbed 5-strand Removal	02220-220-1650	L.F.	2 Clab	280	 	\$3.89	\$0.92		\$4.81	
Chain link 8-10 ft (2.5-3 m) Removal	02220-220-1000	L.F.	B-6	445	1	\$4.06	\$1.13		\$5.19	
Wood, all types 4-6 ft ("1.5-2 m) high - Removal	02220-220-1700	L.F.	2 Clab	430		\$2.53	\$0.60		\$3.13	
vvood, air types 4-6 ft (17.5-2 ff) ftigit - Nethoval	user	L.F.	2 Clab	430		φ2.33	φυ.ου		φ3.10	
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
	user	L.F.				******			\$0.00	
Culvert Removal	usci	L.I .			· · · · · · · · · · · · · · · · · · ·				μ	
	02220-220-2900	T . =	T 5.0	475					100000000000000000000000000000000000000	
12 in (300 mm) Diameter	02220-220-2900	L.F.	B-6 B-6	175 150		\$10.33 \$12.05	\$2.88		\$13.21	
18 in (450 mm) Diameter 24 in (600 mm) Diameter	02220-220-2930	L.F.	B-6	120		\$12.05	\$3.36 \$4.20		\$15.41 \$19.26	
				90			\$4.20 \$5.60			
36 in (1m) Diameter	02220-220-3000	L.F.	B-6	90		\$20.08	\$5.60	*11*11*11*11*11	\$25.68	
Pipeline Removal										
0.75 in (20mm) - 4 in (100 mm) diameter	02220-381-1600	L.F.	B-20	700		\$3.07	\$0.37		\$3.44	
6 in (150 mm) - 8 in (200 mm)	02220-381-1700	L.F.	B-20	500		\$4.30	\$0.52		\$4.82	
10 in (250 mm) - 18 in (450 mm)	02220-381-1800	L.F.	B-20	300		\$7.16	\$0.86		\$8.02	
20 in (500 mm) - 36 in (1 m)	02220-381-1900	L.F.	B-20	200		\$10.75	\$1.29		\$12.04	
ipe and Drainpipe Installation										
Water 4in (100mm) 40ft (12m) length, welded HDPE	02510-760-0100	L.F.	B-22A	400	\$2.70	\$7.70	\$5.40		\$15.80	
Water 6in (150mm) 40ft (12m) length, welded HDPE	02510-760-0200	L.F.	B-22A	380	\$5.85	\$8.10	\$5.69		\$19.64	
Water 12in (300mm) 40ft (12m) length, welded HDPE	02510-760-0500	L.F.	B-22A	260	111111111111111	\$11.84	\$8.31		\$20.15	
Drain 4in (100mm) perforated PVC	02620-630-2100	L.F.	B-14	315	\$1.74	\$12.55	\$1.80		\$16.09	
Drain 6in (150mm) perforated PVC	02620-630-2110	L.F.	B-14	300	\$4.22	\$13.18	\$1.89		\$19.29	
Drain 4in (100mm) corrugated, perf or plain	02620-660-0040	L.F.	2 Clab	1200	\$0.78	\$0.91	\$0.21		\$1.90	
Drain 6in (150mm) corrugated., perf or plain	02620-660-0060	L.F.	2 Clab	900	\$2.18	\$1.21	\$0.29		\$3.68	

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Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Drain Rock Preparation										
Crushing		C.Y.							\$0.50	
Screening		C.Y.							\$0.50	
TOTAL									\$1.00	
Misc.										
Backhoe work	02210-700-0120	C.Y.	B-11M	28		\$25.63	\$11.10		\$36.73	
Powerline and Transformer Removal		<u> </u>								
Single Pole		mile				T			\$46.804.00	
Double Pole		mile							\$53,490,00	
Transformer (9)		ea.							\$58,997.00	
NOTES:										
(7) Single Pole Source:	NV Energy estimate (20	09) Adjust	ed to 2020							
(8) Double Pole Source: 1	NV Energy estimate (20	09) Adjust	ed to 2020							
(9) Transformer Source:	NV Energy estimate (20	09) Adjust	ed to 2020							
Erosion and Sedimentation Control										
Erosion and Sedimentation Control	Hanny Construction 20	05 Edition	by parmice	ion of D.S.M	oans/Pood Cons	truction Data				
Hourly productivity rates and crew composition from Means						truction Data .				
Erosion and Sedimentation Control Hourly productivity rates and crew composition from Means All equipment, labor and material unit costs are from Labor				preadsheets		truction Data .				
Hourly productivity rates and crew composition from Means	Costs, Equipment Costs	s and Mate	erial Costs s	preadsheets Daily			Equipment	Premium	Total	Notes
Hourly productivity rates and crew composition from Means All equipment, labor and material unit costs are from Labor				preadsheets		truction Data .	Equipment	Premium	Total	Notes
Hourly productivity rates and crew composition from Means All equipment, labor and material unit costs are from Labor Rip-Rap & Rock Lining	Costs, Equipment Costs Means Number	s and Mate	Crew	preadsheets Daily Output	Materials	Labor		Premium		
Hourly productivity rates and crew composition from Means All equipment, labor and material unit costs are from Labor Rip-Rap & Rock Lining Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted	Costs, Equipment Costs Means Number 02370-450-0110	Unit	erial Costs s	preadsheets Daily Output	Materials \$25.00		\$9.22	Premium	Total \$83.65	Notes assumes on-site source of rip-rap assumes on-site source of rip-rap
Hourly productivity rates and crew composition from Means All equipment, labor and material unit costs are from Labor Rip-Rap & Rock Lining	Costs, Equipment Costs Means Number	s and Mate	Crew	preadsheets Daily Output	Materials	Labor \$49.43		Premium	\$83.65	assumes on-site source of rip-rap assumes on-site source of rip-rap
Hourly productivity rates and crew composition from Means All equipment, labor and material unit costs are from Labor Rip-Rap & Rock Lining Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted Rip-Rap 18 in (450 mm) min thick, no grout	Costs, Equipment Costs Means Number 02370-450-0110 02370-450-0200	Unit S.Y. S.Y.	Crew B-13 B-13	Daily Output 80 53	Materials \$25.00 \$7.65	Labor \$49.43 \$74.61	\$9.22 \$13.92	Premium	\$83.65 \$96.18	assumes on-site source of rip-rap
Hourly productivity rates and crew composition from Means All equipment, labor and material unit costs are from Labor Rip-Rap & Rock Lining Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted Rip-Rap 18 in (450 mm) min thick, no grout Gabions, 6 in (150 mm) deep	Costs, Equipment Costs Means Number 02370-450-0110 02370-450-0200 02370-450-0400	Unit S.Y. S.Y. S.Y.	Crew B-13 B-13 B-13	Daily Output 80 53 200	\$25.00 \$7.65 \$7.05	\$49.43 \$74.61 \$19.77	\$9.22 \$13.92 \$3.69	Premium	\$83.65 \$96.18 \$30.51	assumes on-site source of rip-rap assumes on-site source of rip-rap assumes on-site source rock fill for gabions
Hourly productivity rates and crew composition from Means All equipment, labor and material unit costs are from Labor Rip-Rap & Rock Lining Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted Rip-Rap 18 in (450 mm) min thick, no grout Gabions, 6 in (150 mm) deep Gabions, 9 in (250 mm) deep	Costs, Equipment Costs Means Number 02370-450-0110 02370-450-0200 02370-450-0400 02370-450-0500	S.Y. S.Y. S.Y. S.Y. S.Y.	Crew B-13 B-13 B-13 B-13 B-13	Daily Output 80 53 200 163	\$25.00 \$7.65 \$7.05 \$9.85	\$49.43 \$74.61 \$19.77 \$24.26	\$9.22 \$13.92 \$3.69 \$4.53	Premium	\$83.65 \$96.18 \$30.51 \$38.64	assumes on-site source of rip-rap assumes on-site source of rip-rap assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions
Hourly productivity rates and crew composition from Means All equipment, labor and material unit costs are from Labor Rip-Rap & Rock Lining Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted Rip-Rap 18 in (450 mm) min thick, no grout Gabions, 6 in (150 mm) deep Gabions, 9 in (250 mm) deep Gabions, 12 in (300 mm) deep	Costs, Equipment Costs Means Number 02370-450-0110 02370-450-0200 02370-450-0400 02370-450-0500 02370-450-0200	S.Y. S.Y. S.Y. S.Y. S.Y. S.Y. S.Y.	Crew B-13 B-13 B-13 B-13 B-13 B-13	Daily Output 80 53 200 163 153	\$25.00 \$7.65 \$7.05 \$9.85 \$14.30	\$49.43 \$74.61 \$19.77 \$24.26 \$25.84	\$9.22 \$13.92 \$3.69 \$4.53 \$4.82	Premium	\$83.65 \$96.18 \$30.51 \$38.64 \$44.96	assumes on-site source of rip-rap assumes on-site source of rip-rap assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions
Hourly productivity rates and crew composition from Means All equipment, labor and material unit costs are from Labor Rip-Rap & Rock Lining Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted Rip-Rap 18 in (450 mm) min thick, no grout Gabions, 6 in (150 mm) deep Gabions, 9 in (250 mm) deep Gabions, 12 in (300 mm) deep Gabions, 18 in (450 mm) deep Gabions, 18 in (450 mm) deep Gabions, 36 in (1m) deep Gabions, 36 in (1m) deep	Costs, Equipment Costs Means Number 02370-450-0110 02370-450-0200 02370-450-0400 02370-450-0500 02370-450-0200 02370-450-0200	S.Y. S.Y. S.Y. S.Y. S.Y. S.Y. S.Y. S.Y.	B-13 B-13 B-13 B-13 B-13 B-13 B-13 B-13	80 53 200 163 153 102	\$25.00 \$7.65 \$7.05 \$9.85 \$14.30 \$18.35	\$49.43 \$74.61 \$19.77 \$24.26 \$25.84 \$38.77	\$9.22 \$13.92 \$3.69 \$4.53 \$4.82 \$7.23	Premium	\$83.65 \$96.18 \$30.51 \$38.64 \$44.96 \$64.35	assumes on-site source of rip-rap assumes on-site source of rip-rap assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions
Hourly productivity rates and crew composition from Means All equipment, labor and material unit costs are from Labor Rip-Rap & Rock Lining Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted Rip-Rap 18 in (450 mm) min thick, no grout Gabions, 6 in (150 mm) deep Gabions, 9 in (250 mm) deep Gabions, 12 in (300 mm) deep Gabions, 18 in (450 mm) deep Gabions, 18 in (450 mm) deep Gabions, 36 in (1m) deep Gabions, 36 in (1m) deep	Costs, Equipment Costs Means Number 02370-450-0110 02370-450-0200 02370-450-0400 02370-450-0500 02370-450-0200 02370-450-0200	S.Y. S.Y. S.Y. S.Y. S.Y. S.Y. S.Y. S.Y.	B-13 B-13 B-13 B-13 B-13 B-13 B-13 B-13	80 53 200 163 153 102	\$25.00 \$7.65 \$7.05 \$9.85 \$14.30 \$18.35	\$49.43 \$74.61 \$19.77 \$24.26 \$25.84 \$38.77	\$9.22 \$13.92 \$3.69 \$4.53 \$4.82 \$7.23	Premium	\$83.65 \$96.18 \$30.51 \$38.64 \$44.96 \$64.35	assumes on-site source of rip-rap assumes on-site source of rip-rap assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions
Hourly productivity rates and crew composition from Means All equipment, labor and material unit costs are from Labor Rip-Rap & Rock Lining Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted Rip-Rap 18 in (450 mm) min thick, no grout Gabions, 6 in (150 mm) deep Gabions, 9 in (250 mm) deep Gabions, 12 in (300 mm) deep Gabions, 18 in (450 mm) deep Gabions, 18 in (450 mm) deep Gabions, 36 in (1m) deep HDEP Liner Installation	Costs, Equipment Costs Means Number 02370-450-0110 02370-450-0200 02370-450-0400 02370-450-0500 02370-450-0200 02370-450-0200 02370-450-0200	S.Y. S.Y. S.Y. S.Y. S.Y. S.Y. S.Y. S.Y.	B-13 B-13 B-13 B-13 B-13 B-13 B-13 B-13	80 53 200 163 153 102 60	\$25.00 \$7.65 \$7.05 \$9.85 \$14.30 \$18.35	\$49.43 \$74.61 \$19.77 \$24.26 \$25.84 \$38.77 \$65.90	\$9.22 \$13.92 \$3.69 \$4.53 \$4.82 \$7.23 \$12.30	Premium	\$83.65 \$96.18 \$30.51 \$38.64 \$44.96 \$64.35 \$109.20	assumes on-site source of rip-rap assumes on-site source of rip-rap assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions
Hourly productivity rates and crew composition from Means All equipment, labor and material unit costs are from Labor Rip-Rap & Rock Lining Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted Rip-Rap 18 in (450 mm) min thick, no grout Gabions, 6 in (150 mm) deep Gabions, 9 in (250 mm) deep Gabions, 12 in (300 mm) deep Gabions, 18 in (450 mm) deep Gabions, 36 in (1m) deep Gabions, 36 in (1m) deep HDEP Liner Installation	Costs, Equipment Costs Means Number 02370-450-0110 02370-450-0200 02370-450-0400 02370-450-0500 02370-450-0200 02370-450-0200 02370-450-0200	S.Y. S.Y. S.Y. S.Y. S.Y. S.Y. S.Y. S.Y.	B-13 B-13 B-13 B-13 B-13 B-13 B-13 B-13	80 53 200 163 153 102 60	\$25.00 \$7.65 \$7.05 \$9.85 \$14.30 \$18.35	\$49.43 \$74.61 \$19.77 \$24.26 \$25.84 \$38.77 \$65.90	\$9.22 \$13.92 \$3.69 \$4.53 \$4.82 \$7.23 \$12.30	Premium	\$83.65 \$96.18 \$30.51 \$38.64 \$44.96 \$64.35 \$109.20	assumes on-site source of rip-rap assumes on-site source of rip-rap assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions
Hourly productivity rates and crew composition from Means All equipment, labor and material unit costs are from Labor Rip-Rap & Rock Lining Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted Rip-Rap 18 in (450 mm) min thick, no grout Gabions, 6 in (150 mm) deep Gabions, 9 in (250 mm) deep Gabions, 12 in (300 mm) deep Gabions, 18 in (450 mm) deep Gabions, 36 in (1m) deep HDEP Liner Installation Finish grading large area Compaction-riding, vibrating roller - 12/in (300mm) lifts	Costs, Equipment Costs Means Number 02370-450-0110 02370-450-0200 02370-450-0200 02370-450-0500 02370-450-0200 02370-450-0200 02370-450-0200 02370-450-0200	S.Y. S.Y.	B-13 B-13 B-13 B-13 B-13 B-13 B-13 B-13	80 53 200 163 153 102 60	\$25.00 \$7.65 \$7.05 \$9.85 \$14.30 \$18.35 \$31.00	\$49.43 \$74.61 \$19.77 \$24.26 \$25.84 \$38.77 \$65.90	\$9.22 \$13.92 \$3.69 \$4.53 \$4.82 \$7.23 \$12.30	Premium	\$83.65 \$96.18 \$30.51 \$38.64 \$44.96 \$64.35 \$109.20	assumes on-site source of rip-rap assumes on-site source of rip-rap assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions
Hourly productivity rates and crew composition from Means All equipment, labor and material unit costs are from Labor Rip-Rap & Rock Lining Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted Rip-Rap 18 in (450 mm) min thick, no grout Gabions, 6 in (150 mm) deep Gabions, 9 in (250 mm) deep Gabions, 12 in (300 mm) deep Gabions, 18 in (450 mm) deep Gabions, 36 in (1m) deep Gabions, 36 in (1m) deep Gabions in the first production of the first pr	Costs, Equipment Costs Means Number 02370-450-0110 02370-450-0200 02370-450-0200 02370-450-0500 02370-450-0200 02370-450-0200 02370-450-0200 02370-450-0200 02370-450-0200	S.Y. S.Y. S.Y. S.Y. S.Y. S.Y. S.Y. S.Y.	B-13 B-13 B-13 B-13 B-13 B-13 B-13 B-13	80 53 200 163 153 102 60 18000 2600 1600	\$25.00 \$7.65 \$7.05 \$9.85 \$14.30 \$18.35 \$31.00	\$49.43 \$74.61 \$19.77 \$24.26 \$25.84 \$38.77 \$65.90 \$0.07 \$0.48 \$1.47	\$9.22 \$13.92 \$3.69 \$4.53 \$4.82 \$7.23 \$12.30 \$0.06 \$0.21 \$0.51	Premium	\$83.65 \$96.18 \$30.51 \$38.64 \$44.96 \$64.35 \$109.20	assumes on-site source of rip-rap assumes on-site source of rip-rap assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions
Hourly productivity rates and crew composition from Means All equipment, labor and material unit costs are from Labor Rip-Rap & Rock Lining Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted Rip-Rap 18 in (450 mm) min thick, no grout Gabions, 6 in (150 mm) deep Gabions, 9 in (250 mm) deep Gabions, 12 in (300 mm) deep Gabions, 12 in (300 mm) deep Gabions, 36 in (1m) deep HDEP Liner Installation Finish grading large area Compaction-riding, vibrating roller - 12in (300mm) lifts 60 mil HDPE	Costs, Equipment Costs Means Number 02370-450-0110 02370-450-0200 02370-450-0400 02370-450-0500 02370-450-0200 02370-450-0200 02370-450-0200 02370-450-0200 02370-450-0200	Unit S.Y. S.F. B-13 B-13 B-13 B-13 B-13 B-13 B-13 B-13	80 53 200 163 153 102 60 18000 2600 149	\$25.00 \$7.65 \$7.05 \$9.85 \$14.30 \$18.35 \$31.00	\$49.43 \$74.61 \$19.77 \$24.26 \$25.84 \$38.77 \$65.90 \$0.07 \$0.48 \$11.47	\$9.22 \$13.92 \$3.69 \$4.53 \$4.82 \$7.23 \$12.30 \$0.06 \$0.21 \$0.51 \$5.51	Premium	\$83.65 \$96.18 \$30.51 \$38.64 \$44.96 \$64.35 \$109.20 \$0.13 \$0.69 \$2.55 \$21.33	assumes on-site source of rip-rap assumes on-site source of rip-rap assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions assumes on-site source rock fill for gabions	

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Construction Management Su	upport								
Office Trailer, Furnisher	d, no hook-ups	0150-500-0250	mo.	\$198.00			\$19	3.00	
Toilet Port	able, chemical	1590-400-6410	mo.	\$214.20			\$21	1.20	
TO	TAL			\$412.20			\$41	2.20	
Pump and Casing Removal									
Pum	р Туре	Measurement	Unit		Labor	Equipment	Tota		Notes
Pump Removal									
	Submersible	ft to pump	L.F.		\$7.65	\$18.86	\$2	5.51	
	Line Shaft	ft to pump	L.F.		\$7.65	\$18.86	\$2	5.51	
	NOTES:				•	·			
(10) Pump Rei	moval Source:	Boart Longyear Quote: Ji	une 2020						

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Misc. Unit Costs

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

EQUIPMENT FLEETS				
ACTIVITY AND FLEET	Standard Crew Size	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
RIPPING	7 0.011 0.20	(1.001.)	()	(1.1041.13)
Rip road Waste rock dumps, heaps, tails - rip flat surfaces Surface preparation Scarify				
Small Do	zer w/ multi-sha	nk		
D7R: Totals	1	\$118.35 \$118.35		\$209.12 \$209.12
Medium Do	ozer w/ multi-sh			
Totals	1	\$272.79 \$272.79		\$363.56 \$363.56
Large Do	zer w/ multi-sha	nk		
D10R: Totals	1	\$368.64 \$368.64	\$90.77 \$90.77	\$459.41 \$459.41
Grader	w/ multi-shank			
Totals	1	\$208.77 \$208.77	\$90.20 \$90.20	\$298.97 \$298.97
GRADING				
	II Dozer Fleet			2000 40
D7R Totals	1	\$118.35 \$118.35		\$209.12 \$209.12
Mediu	ım Dozer Fleet			
Totals	1	\$272.79 \$272.79		\$363.56 \$363.56
Larg	e Dozer Fleet			
Totals	1	\$368.64 \$368.64		\$459.41 \$459.41
EXPLORATION GRADING				
Backfilling and grading exploration trenches Grading flat exploration roads				
Sma	II Dozer Fleet			
Totals	1	\$106.75 \$106.75		\$197.52 \$197.52
Medi	ım Dozer Fleet			
: 1: D7R(::::::::::::::::::::::::::::::::::::	1	\$118.35 \$118.35		\$209.12 \$209.12
Totals				
Totals	e Dozer Fleet	\$198.96	\$90.77	\$289.73

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Model Version: Version 1.4.1

Cost Data: User Data

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EQUIPMENT FLEETS				
ACTIVITY AND FLEET	Standard Crew Size	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
EXCAVATING	GIGH GIZE	(Hourry)	(Houriy)	(Hourly)
Earthen Berms Diversion ditch excavation and backfill Underground openings backfill - excavate and place Pit berm construction (excavator option)				
Sma	II Excavator			
311a	1	\$92.82	\$90.20	\$183.0
Totals		\$92.82	\$90.20	\$183.0
Mediu	ım Excavator			
3458 Totals Totals	1	\$152.22 \$152.22	\$90.20 \$90.20	\$242.4 \$242.4
Larg	e Excavator			
: 385BL : : : : : : : : : : : : : : : : : : :	1	\$240.84 \$240.84	\$90.20 \$90.20	\$331.0 \$331.0
EXCAVATE AND RECONTOUR				
Recontour large roads (haul roads, access roads, etc.) Ponds - Excavate and pull liner and bury				
Cmall Ev	coveter + Dese	_		
Smail EX	cavator + Doze	\$92.82	\$90.20	\$183.0
D7Ř:	1	\$118.35	\$90.77	\$209.1
Total Equipment		\$211.17	\$180.97	\$392.1
	xcavator + Doz			44.4
345B D9R:	1 1	\$152.22 \$272.79	\$90.20 \$90.77	\$242.4 \$363.5
Totals		\$425.01	\$180.97	\$605.9
Large Ex	cavator + Doze	r \$240.84	\$90.20	\$331.0
D10R	1	\$368.64	\$90.77	\$459.4
Totals		\$609.48	\$180.97	\$790.4
EXPLORATION ROAD/PAD RECONTOUR				
Recontour small roads (exploration roads, service roads, etc.) Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill				
	nall Dozer			
D6R Totals	1	\$106.75 \$106.75	\$90.77 \$90.77	\$197.5 \$197.5
	D			
Lai 1: D8R: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1:	rge Dozer	\$198.96	\$90.77	\$289.7
Totals		\$198.96	\$90.77	\$289.7
	Grader			
14G/H	1	\$145.42	\$90.20	\$235.6
Totals		\$145.42	\$90.20	\$235.6
	II Excavator			
320 ¢ Totals	1	\$68.92 \$68.92	\$90.20 \$90.20	\$159.1 \$159.1
			X-1	
Mediu	m Excavator	\$92.82	\$90.20	\$183.0
	1 '	\$92.82	\$90.20	\$183.0

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

QUIPMENT FLEETS					
ACTIVITY AND FLEET		Standard Crew Size	EQUIPMENT UNIT COST	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
OAD, HAUL AND PLACE MATERIAL		Crew Size	(Hourly)	(Houriy)	(Hourly)
Rock placement					
Haul overburden for backfill					
Haul borrow for backfill					
Haul cover or growth media					
	all Truck/L	ooder Flee			
311 	IAII TTUCK/L	Calculated	\$142.65	\$68.43	\$211.0
966G	Loader	1	\$118.33	\$89.72	\$208.0
D7Ř:		1	\$118.35	\$90.77	\$209.1
Totals			\$379.33	\$248.92	\$628.2
	T	(II FI -	-4		
Med : 740 : : : : : : : : : : : : : : : : : : :	ium Truck/	Calculated	et \$164.16	\$68.43	\$232.5
9886	l oader	1	\$238.47	\$90.00	\$328.4
D8R		1	\$198.96	\$90.77	\$289.7
Totals			\$601.59	\$249.20	\$850.
	ge Truck/L				
769D		Calculated	\$193.23	\$68.43	\$261.0
988G D7R	Loader	1 1	\$238.47 \$118.35	\$90.00 \$90.77	\$328.4 \$209.1
Totals		 '	\$550.05	\$249.20	\$209. \$799.2
. 5 (4)				4-10:-0	ψ, σσ,
Extra	Large Truc	k/Loader F	leet		
777.D		Calculated	\$456.55	\$68.43	\$524.9
992G	Loader	1	\$566.94	\$90.00	\$656.9
D7R: Totals		1	\$118.35 \$1,141.84	\$90.77 \$249.20	\$209.1 \$1,391.0
Totals			Ψ1, (41, 94)	9243.20	Ψ,,,ο,,,,
	Scraper/Do	zer Fleet			
631Ģ	<u> </u>	Calculated	\$254.57	\$90.20	\$344.
:D10R		1	\$368.64	\$90.77	\$459.4
D7R:		1	\$118.35	\$90.77	\$209.1
Totals			\$741.56	\$271.74	\$1,013.3
Т	andem Scr	aner Fleet			
637G	<u> </u>	2	\$361.26	\$90.20	\$451.4
D7R		1	\$118.35	\$90.77	\$209.
Totals			\$479.61	\$180.97	\$660.5
NOO LOAD AND HALII AND EARTHWORKS					
IISC. LOAD AND HAUL AND EARTHWORKS Sludge removal					
Drainage controls					
Misc Cat 3	25B Excava	ator / 10-12			
325¢:		1	\$92.82	\$90.20	\$183.0
Dump Truck (10-12 yd3)		1	\$97.89	\$68.43	\$166.3
Totals		<u> </u>	\$190.71	\$158.63	\$349.3
Misc Cat D9R Do	ozer/ Loade	er (5 yd3) /	10-12 yd3 Truck		
.D9R::::::::::::::::::::::::::::::::::::		1	\$272.79	\$90.77	\$363.5
966G		1	\$118.33	\$89.72	\$208.0
Dump Truck (10-12 yd3)		1	\$97.89	\$68.43	\$166.3
Totals		I	\$489.01	\$248.92	\$737.9
Misc Cat D6 Doz	zer / Cat 96	6 Loader /	10-12 vd3 Truck		
D6R::::::::::::::::::::::::::::::::::::		1	\$106.75	\$90.77	\$197.
966G:		1	\$118.33	\$89.72	\$208.0
Dump Truck (10-12 yd3) Totals		1	\$97.89	\$68.43	\$166.3
	i	1	\$322.97	\$248.92	\$571.8

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022

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Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

EQUIPMENT FLEETS				
ACTIVITY AND FLEET	Standard Crew Size	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
CONCRETE BREAKING	Crew Size	(Hourry)	(Hourly)	(Hourry)
Slab demolition				
Footing demolition				
Wall demolition				
waii demonion				
Small - Cat 325B Exc	avator w/ H140	D c Hammer		
325C::::::::::::::::::::::::::::::::::::	1	\$92.82	\$90.20	\$183.02
H-120 (fits: 325)	1 1	\$41.93	\$0.00	\$41.93
D9R	1 1	\$272.79	\$90.77	\$363.56
Totals		\$407.54	\$180.97	\$588.51
Medium - Cat 345B Ex	cavator w/ H18	0D s Hammer		
:: 345B::::::::::::::::::::::::::::::::::::	1	\$152.22	\$90.20	\$242.42
H-160 (fits 345)	1	\$87.48	\$0.00	\$87.48
D9R	1	\$272.79	\$90.77	\$363.56
Totals		\$512.49	\$180.97	\$693.46
Large - Cat 385B Exc	cavator w/ H180	D s Hammer		
385BL	1	\$240.84	\$90.20	\$331.04
H-180 (fits:365/385)	1	\$116.26	\$0.00	\$116.26
D9R	1	\$272.79	\$90.77	\$363.56
Totals		\$629.89	\$180.97	\$810.86
DRILL HOLE ABANDONMENT				
	 Grout or Ceme 	ent		
Pump (plugging) Drift Rig:	1	\$249.27	\$89.78	\$339.05
Driller's Helper	2	\$0.00	\$137.32	\$137.32
Totals		\$249.27	\$227.10	\$476.37
Drill Hole - Inert Media (I				
420D 4WD Backhoe	1 1	\$38.85	\$89.72	\$128.57
General Laborer:	1	\$0.00	\$68.07	\$68.07
Totals		\$38.85	\$157.79	\$196.64
Doll Hala Ocalina		. D		
Drill Hole - Casing				40.17.00
Heavy Duty Drill Rig	1	\$258.12	\$89.78	\$347.90
Driller's Hélper Totals	2	\$0.00 \$258.12	\$137.32 \$227.10	\$137.32 \$485.22
Totals		\$230.12	φ2Z1.1U	⊅400.∠∠
MAINTENANCE FLEET				
Road Grading, Dust Suppression, Clean Up				
Maintenance - Small Wa	otor Truck and	Cat 14C Crader		
Wainterlance - Small Wainterla		\$76.93	\$68.43	\$145.36
120H	1 1	\$99.94	\$90.20	\$190.14
Totals	'	\$176.87	\$158.63	\$335.50
10480	l .	,	\$.00.00	9000.00
Maintenance - Medium V	Vater Truck and	Cat 16G Grader		
613E (5,000 gal) Water Wagon : : : : : : : : : : : : : : : : : : :	1	\$76.93	\$68.43	\$145.36
14G/H	1 1	\$145.42	\$90.20	\$235.62
Totals	<u>'</u>	\$222.35	\$158.63	\$380.98
. 3 000	1	<u> </u>		Ψ
Maintenance - Large Wa	ater Truck and	Cat 16G Grader		
621E (8,000 gal) Water Wagon	1	\$133.36	\$68.43	\$201.79
16G/H	1	\$208.77	\$90.20	\$298.97
Totals		\$342.13	\$158.63	\$500.76
PROJECT SUPERVISION				
Foreman	1	\$0.00	\$132.28	\$132.28
Supervisor's Truck	1	\$27.41	\$0.00	\$27.41
Totals		\$27.41	\$132.28	\$159.69

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Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

EQUIPMENT FLEETS				
ACTIVITY AND FLEET	Standard Crew Size	EQUIPMENT UNIT COST	TOTAL LABOR UNIT COST	TOTAL COST
	Crew Size	(Hourly)	(Hourly)	(Hourly)
MEANS CREW DEFINITIONS	· · · · · · · · · · · · · · · · · · ·	M/D	wation Data	
Crew composition from Means Heavy Construction 2005 Edition by For use with misc. unit costs where Means is the source for produc		.ivieans/Reed Const	ruction Data .	
·				
1 Clab - Seedling Pla				
General Laborer	1	\$0.00		\$68.07
Totals		\$0.00	\$68.07	\$68.07
2 Clab - Barbed Wire/Wood Fence Remov	al. Drainpipe In	stallation. Pum	oing, Evaporation	
General Laborer	2	\$0.00		\$136.14
Light Truck - 1.5 Ton:	1	\$32.19	\$0.00	\$32.19
Totals		\$32.19	\$136.14	\$168.33
0 Olah . F	D 0 -	-41 F -1-1		
2 Clab + Excavator	2	ut and Fold \$0.00	\$136.14	\$136.14
General Laborer: 325¢	1	\$92.82	\$90.20	\$130.14
Totals		\$92.82	\$226.34	\$319.16
	/elder - Bat Gat	es		
General Laborer	2	\$0.00	\$136.14	\$136.14
Welding:Equipment Light:Truck - 1,5 Ton	1	\$27.83	\$64.67	\$92.50
	1	\$32.19	\$0.00	\$32.19
Totals		\$60.02	\$200.81	\$260.83
3 Clab - I	Foam Adit Plugs	<u> </u>		
General Laborer	2	\$0.00	\$136.14	\$136.14
420D 4WD Backhoe	1	\$38.85	\$89.72	\$128.57
Light Truck - 1,5 Ton	1	\$32.19	\$0.00	\$32.19
Totals		\$71.04	\$225.86	\$296.90
2 Clab + Wols	ler - Culvert Bat	Gata		
General Laborer:	2	. Gate	\$136.14	\$136.14
Welding Equipment	1	\$27.83	\$64.67	\$92.50
420D 4WD Backhoe	1	\$38.85	\$89.72	\$128.57
Light Truck - 1.5 Ton	1	\$32.19	\$0.00	\$32.19
Totals		\$98.87	\$290.53	\$389.40
3 Clab D - 3 Laborers			0004.04	0004.04
General Laborer Foreman	3	\$0.00 \$0.00	\$204.21 \$132.28	\$204.21 \$132.28
Supervisor's Truck	1	\$27.41	\$0.00	\$27.41
Light Truck - 1.5 Ton:	1 1	\$32.19	\$0.00	\$32.19
Totals	'	\$59.60	\$336.49	\$396.09
	<u> </u>			
	Liner Installation			
Skilled Laborer	3	\$0.00	\$204.96	\$204.96
HDEP Welder (pipe or liner)	1	\$63.71 \$38.85	\$0.00 \$89.72	\$63.71
420D 4WD Backhoe	1	\$38.85	\$89.72	\$128.57 \$0.00
		\$0.00		\$0.00
		\$0.00		\$0.00
Totals		\$102.56	\$294.68	\$397.24
Totals		ψ, ν,	Ψ201.00	φοσι.Ζη

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022

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Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

QUIPMENT FLEETS				
ACTIVITY AND FLEET	Standard Crew Size	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
B-3 - Small E	Building Demol		7,	, , , , , , , , , , , , , , , , , , ,
	LABOR			
General Laborer	2	\$0.00	\$136.14	\$136.1
Foreman	1	\$0.00	\$132.28	\$132.2
		\$0.00		\$0.0
		\$0.00 \$0.00		\$0.0 \$0.0
EC	QUIPMENT	ΨΟ,ΟΟ		Ψοι
: 928G: :::::::::::::::::::::::::::::::::::	1	\$62.97	\$89.72	\$152.6
Dump Truck (10-12 yd3):	2	\$195.78	\$136.86	\$332.6
		\$0.00		\$0.0
		\$0.00		\$0.0
		\$0.00		\$0.0
		\$0.00 \$0.00		\$0.0 \$0.0
		\$0.00		\$0.0
		\$0.00		\$0.0
Totals		\$258.75	\$495.00	\$753.
B-6 - Chain Link				
General Laborer:	2	\$0.00	\$136.14	\$136.
: 928Ġ:	1	\$62.97 \$62.97	\$89.72 \$225.86	\$152.6
Totals		\$62.97	\$225.00	\$288.8
B-8 - Large E	Building Demoli	ition		
	LABOR			
General Laborer	2	\$0.00	\$136.14	\$136.1
Poreman:	1	\$0.00	\$132.28	\$132.2
		\$0.00		\$0.0
		\$0.00		\$0.0
Er	QUIPMENT	\$0.00		\$0.0
928G	1	\$62.97	\$89.72	\$152.6
20 Ton Crane:	1 1	\$92.23	\$89.72	\$181.9
Dump:Truck:(10-12 yd3):	2	\$195.78	\$136.86	\$332.6
		\$0.00		\$0.0
		\$0.00		\$0.
		\$0.00 \$0.00		\$0.0
		\$0.00		\$0.0 \$0.0
		\$0.00		\$0.I
		\$0.00		\$0.
		\$0.00		\$0.0
		\$0.00		\$0.0
		\$0.00		\$0.0
		\$0.00	222.2	\$0.0
Totals		\$350.98	\$584.72	\$935.7
R.Q. Conere	ete Wall Demoli	tion		
General Laborer General Laborer	4	\$0.00	\$272.28	\$272.
Foreman	1	\$0.00	\$132.28	\$132.2
Air Compressor + tools		\$40.36	\$85.82	\$126.

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

QUIPMENT FLEETS				
	Standard	EQUIPMENT UNIT COST	TOTAL LABOR UNIT COST	TOTAL
ACTIVITY AND FLEET	Crew Size	(Hourly)	(Hourly)	(Hourly)
	neral Compacti		200.071	000
General Laborer	1 1	\$0.00 \$67.47	\$68.07 \$89.46	\$68
CS533E Vibratory Roller Totals	1	\$67.47	\$157.53	\$156 \$225
			ψ.σ.,σσ	
B-11L - Fine Grading for	Evaporation P	Pond Liner Base \$0.00	\$68.07	\$68
General Laborer: 14G/H:	+ 1	\$145.42	\$90.20	\$235
Totals	'	\$145.42	\$90.20 \$158.27	\$303
#20D-4WD:Backhoe : : : : : : : : : : : : : : : : : : :	Backhoe Work	\$38.85	\$89.72	\$128
Totals	'	\$38.85	\$89.72	\$128
Totals		φ30.03	ψ09.12	φ120.
B-12G - Rip-Rap M	achine Placed	(Modified)		
966G	1	\$118.33	\$89.72	\$208
325¢	1	\$92.82	\$90.20	\$183
Light Truck + 1.5 Ton	1	\$32.19	\$0.00	\$32
Totals		\$243.34	\$179.92	\$423
B-13 - Grouted Rig	o-Rap & Gabio	n Baskets		
General Laborer	4	\$0.00	\$272.28	\$272
Foreman	1	\$0.00	\$132.28	\$132
20 Ton Crane	1	\$92.23	\$89.72	\$181.
Totals		\$92.23	\$494.28	\$586
R-14 PVC Dra	nin Pipe Installa	ation		
Poreman: :::::::::::::::::::::::::::::::::::	1	\$0.00	\$132.28	\$132.
General Laborer:	4	\$0.00	\$272.28	\$272
420D 4WD Backhoe	1	\$38.85	\$89.72	\$128
Light Truck - 1.5 Ton	1	\$32.19	\$0.00	\$32
Totals		\$71.04	\$494.28	\$565
P.20 Po	move Pipelines			
Foreman B-20 - Re	move Pipelines	s \$0.00	\$132.28	\$132
Skilted Laborer	1	\$0.00	\$68.32	\$68
General Laborer	1	\$0.00	\$68.07	\$68
Light Truck - 1.5 Ton:	1	\$32.19	\$0.00	\$32
Totals		\$32.19	\$268.67	\$300
B-22A - HDEP Ins	tallation - Pine	or Liner		
Skilled Laborer	1	\$0.00	\$68.32	\$68
General Laborer	2	\$0.00	\$136.14	\$136
D7R	1	\$118.35	\$90.77	\$209
Light Truck - 1.5 Ton:	1	\$32.19	\$0.00	\$32
420D 4WD Backhoe	1	\$38.85	\$89.72	\$128.
Generator 5KW	1	\$16.96	\$0.00	\$16
HDEP Welder (pipe or liner)	1	\$63.71	\$0.00	\$63
Totals		\$270.06	\$384.95	\$655
R-201 Install	Barbed Wire F	ence		
General Laborer	3	\$0.00	\$204.21	\$204
Light Truck - 1.5 Ton	1	\$32.19	\$0.00	\$32
LIGHT TUCK TOUCK TOUCK				

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

EQUIPMENT FLEETS				
ACTIVITY AND FLEET	Standard Crew Size	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
B-80C - Install Chain Link F	ence (Flatbed tru	ick has small cr	ane)	
General Laborer	3	\$0.00	\$204.21	\$204.21
Light Truck - 1.5 Ton	1	\$32.19	\$0.00	\$32.19
Totals		\$32.19	\$204.21	\$236.40
C-14B - Elevated Concrete Sla	bs (Reinforced C	Concrete Shaft C	Covers)	
Foreman:	1	\$0.00	\$132.28	\$132.28
Supervisor's Truck	1	\$27,41	\$0.00	\$27.41
Carpenter	16	\$0.00	\$1,187,36	\$1,187,36
General Laborer	2	\$0.00	\$136.14	\$136.14
Rodmen (reinforcing concrete)	4	\$0.00	\$276.12	\$276.12
Cement finisher	2	\$0.00	\$137.32	\$137.32
Gas Engine Vibrator	1	\$7.89	\$65.52	\$73.4
Concrete Pump	1	\$97.20	\$0.00	\$97.20
Totals		\$132.50	\$1,934.74	\$2,067.24
C-14D - Concrete Walls Formed in I	Place (Reinforce	d Concrete Adit	Bulkheads)	
Poreman	1	\$0.00	\$132.28	\$132.28
Supervisor's Truck	1	\$27.41	\$0.00	\$27.41
Carpenter	18	\$0.00	\$1,335.78	\$1,335.78
General Laborer	2	\$0.00	\$136.14	\$136.14
Rodmen (reinforcing concrete):	2	\$0.00	\$138.06	\$138.06
Cement finisher	1	\$0.00	\$68.66	\$68.66
Gas Engine Vibrator	1	\$7.89	\$65.52	\$73.4°
Concrete Pump	1	\$97.20	\$0.00	\$97.20
Totals		\$132.50	\$1,876.44	\$2,008.94

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

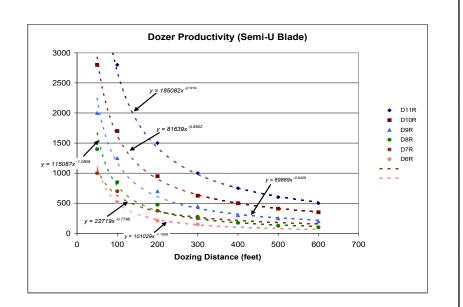
Dozer Operator Skill:	Average
Grader Operator Skill:	Average
Truck/Scraper Operator:	Average
Loader Operator Skill:	Average
Excavator Operator Skill:	. Average.
Dozer Job Efficiency:	50 min/hr
Truck Job Efficiency:	50 min/hr
Scraper Job Efficiency:	50 min/hr
Loader Job Efficiency:	50 min/hr
Excavator Job Efficiency:	50 min/hr
Grader Job Efficiency:	50 min/hr

Productivity - Bulldozers

Dozer Specifications						
Description	D11R	D10R	D9R	D8R	D7R	D6R
Blade Width (SU) (ft)	18.33	15.92	14.17	12.92	12.08	10.67
Shank Guage (3 shanks) (ft)	9.83	8.67	7.67	7.08	6.5	6.5
Pocket Spacing (ft)	4.75	4.33	3.87	3.58	3.25	3.25
Ripping Width (Ripper + 1 Pocket) (ft)	14.58	13	11.54	10.66	9.75	9.75
Ripping Speed (mph)	1	1	1	1	1	1
Ripping Maneuver (turn) Time (min)	0.25	0.25	0.25	0.25	0.25	0.25
Altitude Deration Factor	1	1	1	1	1	1
Ripping Hourly Production (excluding maneuvering time) (ft)	5,280	5,280	5,280	5,280	5,280	5,280

Source: Caterpillar Performance Handbook Edition 35

Dozer Productivity vs. Grading Distance						
			Production (LC	Y/hr)		
Average Dozing Distance (feet)	D11R	D10R	D9R	D8R	D7R	D6R
50	4,800	2,800	2,000	1,400	1,000	
100	2,800	1,700	1,250	850	700	520
200	1,500	950	700	475	375	210
300	1,000	625	450	275	250	150
400	750	500	300	175		
500	600	410	250	125		
600	500	350	200	100		
			Source:	Caterpillar Perfor	mance Handboo	k Edition 35
dozer productivity = k (see graph)	x x Dozing Distance ^p					
k =	185082	81639	89889	115087	22719	101029
p =	-0.919	-0.8502	-0.9425	-1.0809	-0.7796	-1.1506



Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Dozer Operator Skill:	Average
Grader Operator Skill:	Average
Truck/Scraper Operator:	Average
Loader Operator Skill:	Average
Excavator Operator Skill:	: Average:
Dozer Job Efficiency:	50 min/hr
Truck Job Efficiency:	50 min/hr
Scraper Job Efficiency:	50 min/hr
Loader Job Efficiency:	50 min/hr
Excavator Job Efficiency:	50 min/hr
Grader Job Efficiency:	50 min/hr

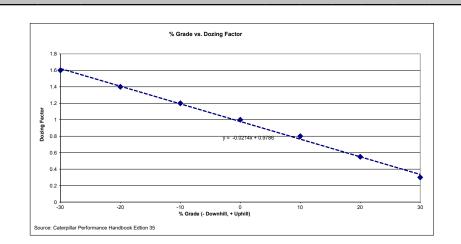
Productivity - Bulldozers (cont.)

% Grade vs. Dozing Factor				
% Grade	Dozing Factor			
-30	1.6			
-20	1.4			
-10	1.2			
0	1			
10	0.8			
20	0.55			
30	0.3			
Source: Caterpillar Performa	nce Handbook Edition 35			
% Grade Dozing Factor =	-0.0214x + 0.9786			
(see graph)				

Job Condition Correction Factor	ors - Bulldozers
OPERATOR	
Average	0.75
MATERIAL (1)	
Loose stockpile	1.2
Normal	1
Hard to cut; frozen —	
with tilt cylinder	0.8
Hard to drift; "dead" (dry,non-cohesive	
material) or very sticky material	0.8
Rock, ripped or blasted	0.6
SLOT DOZING OR SIDE BY SIDE (1)	1.2
VISIBILITY	
Good conditions	1
JOB EFFICIENCY	
50 min/hr	0.83
 Selected in facility worksheets. 	
Other factors included as standard factors.	
Source: Caterpillar Perforn	nance Handbook Edition 35

Material Densities(1)			
Material	lb/cy	kg/m³	
Alluvium	2,900	1,720	
Basalt	3,300	1,960	
Clay - Dry	2,500	1,480	
Granite - broken	2,800	1,660	
Gravel	2,550	1,510	
LS - broken	2,600	1,540	
LS - crushed	2,600	1,540	
Sandstone	2,550	1,510	
Shale	2,100	1,250	
Stone - crushed	2,700	1,600	
Tailings - Coarse (dry, loose sand)	2,400	1,420	
Tailings - Slimes (loose sand & clay)	2,700	1,600	
Topsoil	1,600	950	

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Note: uses Sand & Gravel - Dry from Caterpillar Handbook

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Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022
File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Average
Average
Average:
Average
. Average.
50 min/hr
50 min/hr
50 min/hr
50 min/hr
50 min/hr
50 min/hr

Productivity - Scrapers

Scraper Specifications										
Description	631G	637G								
Empty Weight	100,600	112,760								
Payload Capacity (cy)										
Struck	24	24								
Heaped	34	34								
Average	29	29								
Loaded by	One D10R	Self*								
Load Time (min)	1	1								
Maneuver and Spread (min)	1	1								
Job Efficiency	1	1								
Rolling Resistance**	3	3								
Altitude Deration Factor	1	1								

* Requires pair

**A firm, smooth, rolling roadway with dirt or light surfacing, flexing slightly under load or undulating, maintained fairly regularly, watered

Source: Caterpillar Performance Handbook Edition 35

				Do	wnhill Scrap	er Speed - G	rade Retardin	ng vs. Effect	tive Grade (Grade - R	olling Resi	stance)		
Weight of M				63	1G			637G PP						
Material	lb/cy	Scraper Load	Loaded Weight (lbs)	22	16	10	5	1	Loaded Weight (lbs)	25	15	10	5	1
Alluvium	2,900	84,100	184,700	7.5	10	13	33	33	196,860	7	10	18.5	34	34
Basalt	3,300	95,700	196,300	7.5	10	13	24.5	33	208,460	7	10	18.5	25	34
Clay - Dry	2,500	72,500	173,100	7.5	10	13	33	33	185,260	7	10	18.5	34	34
Granite - broken	2,800	81,200	181,800	7.5	10	13	33	33	193,960	7	10	18.5	34	34
Gravel	2,550	73,950	174,550	7.5	10	13	33	33	186,710	7	10	18.5	34	34
LS - broken	2,600	75,400	176,000	7.5	10	13	33	33	188,160	7	10	18.5	34	34
LS - crushed	2,600	75,400	176,000	7.5	10	13	33	33	188,160	7	10	18.5	34	34
Sandstone	2,550	73,950	174,550	7.5	10	13	33	33	186,710	7	10	18.5	34	34
Shale	2,100	60,900	161,500	7.5	10	18	33	33	173,660	10	13.5	18.5	34	34
Stone - crushed	2,700	78,300	178,900	7.5	10	13	33	33	191,060	7	10	18.5	34	34
Tailings - Coarse (dry, loose sand)	2,400	69,600	170,200	7.5	10	13	33	33	182,360	7	10	18.5	34	34
Tailings - Slimes (loose sand & clay)	2,700	78,300	178,900	7.5	10	13	33	33	191,060	7	10	18.5	34	34
Topsoil	1,600	46,400	147,000	7.5	10	18	33	33	159,160	10	13.5	18.5	34	34
			Empty	10	18	24.5	33	33	Empty	10	13.5	18.5	34	34

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Project Name: Rosemont Copper World Mined Land Reclamation Plan-Reclamation Plan

Date of Submittal: May 3, 2022
File Name: Rosemont RP21 M

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Productivity - Scrapers (cont.)

Cost Data: User Data

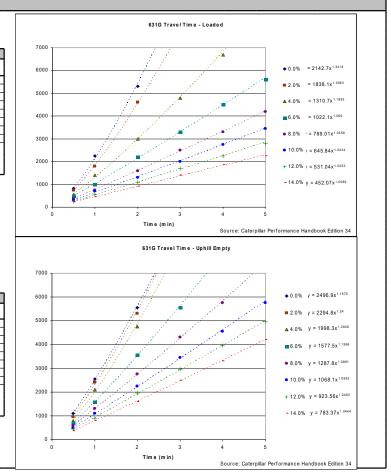
Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Dozer Operator Skill:	Average
Grader Operator Skill:	Average
Truck/Scraper Operator:	Average:
Loader Operator Skill:	Average
Excavator Operator Skill:	. Average.
Dozer Job Efficiency:	50 min/hr
Truck Job Efficiency:	50 min/hr
Scraper Job Efficiency:	50 min/hr
Loader Job Efficiency:	50 min/hr
Excavator Job Efficiency:	50 min/hr
Grader Job Efficiency:	50 min/hr

631G Scraper Travel Time - Uphill Loaded Total Resistance (%) Time (min) (rolling + grade) 0.5 825 2,250 5.300 2142.7 1.3418 750 1.800 4.600 1838.1 1.3083 550 490 1,400 3,000 4,800 3,300 6,700 1310.7 1.1893 5.600 1.000 2.200 4.500 1022.1 1.066 375 750 1,600 2,500 3,300 4,200 769.01 1.0558 10 300 700 1,300 2,000 2,750 3,450 645.84 1.0424 250 550 1,100 1,700 2,250 2,800 531.04 1.0453 450 452.07 1.0089 Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{\nu}}$ Source: Caterpillar Performance Handbook Edition 35

Total Resistance (%)		Time (min)							
(rolling + grade)	0.5	1	2	3	4	5	k	р	
0	1,100	2,550	5,550				2496.9	1.16	
2	950	2,400	5,300				2294.8	1.2	
4	800	2,100	4,750				1998.3	1.28	
6	700	1,600	3,550	5,550			1557.5	1.15	
8	600	1,300	2,750	4,300	5,750		1287.8	1.08	
10	500	1,100	2,250	3,450	4,550	5,750	1068.1	1.05	
12	450	900	1,950	2,950	3,950	4,950	923.56	1.04	
14	375	800	1,600	2,500	3,300	4,200	783.37	1.04	
Travel Time (min)	distance	1 222	1,,,,,,	_,	1,000	,,====			



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Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Dozer Operator Skill:	Average
Grader Operator Skill:	Average
Truck/Scraper Operator:	Average
Loader Operator Skill:	Average
Excavator Operator Skill:	: Average:
Dozer Job Efficiency:	50 min/hr
Truck Job Efficiency:	50 min/hr
Scraper Job Efficiency:	50 min/hr
Loader Job Efficiency:	50 min/hr
Excavator Job Efficiency:	50 min/hr
Grader Job Efficiency:	50 min/hr

Productivity - Scrapers (cont.) 637G PP Travel Time - Loaded 8000 • 0.0% y = 2402.9x^{1.2362} 637G Push-Pull Scraper Travel Time - Uphill Loaded 7000 Total Resistance (%) Time (min) = 2.0% / = 2127.6x1.2995 0.5 (rolling + grade) 6000 1.000 2,500 5.550 2402.9 1.2362 ▲ 4.0% y = 1659.4x^{1.2212} 850 700 2,200 1,700 5.150 2127.6 1.2995 5000 6.250 3 900 1659 4 ■6.0% y = 1287.8x^{1.0891} 600 1.300 2.750 4.300 5.750 1287.8 1.0891 500 1.100 2.200 3,300 4,500 5.600 1059.1 1.0421 4000 10 400 850 1,750 2,700 3,600 4,475 839.89 1.0503 • 8.0% y = 1059.1x^{1.0421} 375 750 3,800 12 1,500 2,300 3,000 751.58 1.0055 • 10.0% y = 839.89x^{1.0503} 275 600 1.300 2,000 2.650 3,250 595.28 1.0794 distance + 12.0% y = 751.58x1.0055 2000 Travel Time (min) = Source: Caterpillar Performance Handbook Edition 35 -14.0% y = 595.28x1.0794 Time (min) Source: Caterpillar Performance Handbook Edition 34 637G PP Travel Time - Loaded 637G Push-Pull Scraper Travel Time - Uphill Empty 8000 Total Resistance (%) Time (min) (rolling + grade) 7000 ◆0.0% /= 2695.9x^{1.0945} 1,250 2,750 5,700 2695.9 1.0945 1,200 2,600 5,550 2587.1 1.1047 ■2.0% /= 2587.1x^{1.1047} 990 2,450 5,250 2335.2 1.0234 6000 800 2,000 4,450 7,216 1914.4 1.2211 ▲4.0% /= 2335.2x^{1.2034} 700 1,600 3,500 5,400 7,216 1563.8 1.124 5000 625 1,350 2,800 4,300 5,750 7,216 1327.4 1.0611 550 1,200 2,450 3,750 5,000 6,250 1168.8 1.0524 ■ 6.0% '= 1914.4x^{1.2211} 495 1,010 2,100 3,200 4,250 5,300 1015.8 1.0337 4000 ●8.0% / = 1563.8x^{1.124} distance ●10.0% / = 1327.4x^{1.0611} Travel Time (min) = Source: Caterpillar Performance Handbook Edition 35 +12.0% y = 1168.8x^{1.0524} 2000 -14.0% y = 1015.8x^{1.0337} 1000 1.5 2.5 3.5 4.5 Time (min)

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Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Dozer Operator Skill:	Average
Grader Operator Skill:	Average
Truck/Scraper Operator:	Average
Loader Operator Skill:	Average
Excavator Operator Skill:	. Average.
Dozer Job Efficiency:	50 min/hr
Truck Job Efficiency:	50 min/hr
Scraper Job Efficiency:	50 min/hr
Loader Job Efficiency:	50 min/hr
Excavator Job Efficiency:	50 min/hr
Grader Job Efficiency:	50 min/hr

Productivity - Haul Trucks

Haul Truck Specifications									
769D	773E	777D	785C	793C	797B				
53,506	70,330	113,160	170,000	259,500	473,600				
17,350	20,300	34,785	36,788	70,785	104,200				
7,000	8,600	12,040	16,846	24,418	8,800				
77,856	99,230	159,985	223,634	354,703	586,600				
21.6	34.8	55	78.5	126	228				
31.7	46	78.6	102	169	290				
26.65	40.4	66.8	90.25	147.5	259				
0.7	0.7	0.7	0.7	0.7	0.7				
1.1	1.1	1.1	1.1	1.1	1.1				
0.83	0.83	0.83	0.83	0.83	0.83				
2.5	2.5	2.5	2.5	2.5	2.5				
1	1	1	1	1	1				
	769D 53,506 17,350 7,000 77,856 21.6 31.7 26.65 0.7 1.1	769D 73E 53,506 70,330 17,350 20,300 7,000 8,600 77,856 99,230 21.6 34.8 31.7 46 26.65 40.4 0.7 0.7 1.1 1.1 0.83 0.83	769D 773E 777D 53,506 70,330 113,160 17,350 20,300 34,785 7,000 8,600 12,040 77,856 99,230 159,985 21.6 34.8 55 31.7 46 78.6 26.65 40.4 66.8 0.7 0.7 0.7 1.1 1.1 1.1 0.83 0.83 0.83	769D 773E 777D 785C 53,506 70,330 113,160 170,000 17,350 20,300 34,785 36,788 7,000 8,600 12,040 16,846 77,856 99,230 159,985 223,634 21.6 34.8 55 78.5 31.7 46 78.6 102 26.65 40.4 66.8 90,25 0.7 0.7 0.7 0.7 1.1 1.1 1.1 1.1 1.1 0.83 0.83 0.83 0.83 0.83	7690 773E 777D 786C 793C 53,506 70,330 113,160 170,000 259,500 17,350 20,300 34,785 36,788 70,785 7,000 8,600 12,040 16,846 24,418 77,856 99,230 159,985 223,634 354,703 21.6 34.8 55 78.5 126 31.7 46 78.6 102 169 26.65 40.4 66.8 90,25 147.5 0.7 0.7 0.7 0.7 0.7 1.1 1.1 1.1 1.1 1.1 1.1 0.83 0.83 0.83 0.83 0.83 0.83				

*A firm, smooth, rolling roadway with dirt or light surfacing, flexing slightly under load

or undulating, maintained fairly regularly, watered Source: Caterpillar Performance Handbook Edition 35

							Downhi	II Haul Truc	k Speed - (Grade Reta	rding vs. E	Effective C	Grade (Gra	de - Rolli	ng Resista	ance)			
	Weight of Mate	rials				769D 773E							777D						
Material	lb/cy	Truck (769D) Load Ib	Truck (773E) Load Ib	Truck (777D) Load lb	Loaded Weight (lbs)	20	15	10	5	Loaded Weight (lbs)	20	15	10	5	Loaded Weight (lbs)	20	15	10	5
Alluvium	2,900	77,285	117,160	193,720	155,141	11	11	15	26	216,390	7	7	13	23	353,705	7	9	12	29
Basalt	3,300	87,945	133,320	220,440	165,801	11	11	11	20	232,550	7	7	13	23	380,425	7	7	12	21
Clay - Dry	2,500	66,625	101,000	167,000	144,481	11	11	15	26	200,230	7	9	13	23	326,985	7	9	16	29
Granite - broken	2,800	74,620	113,120	187,040	152,476	11	11	15	26	212,350	7	7	13	23	347,025	7	9	12	29
Gravel	2,550	67,958	103,020	170,340	145,814	11	11	15	26	202,250	7	9	13	23	330,325	7	9	16	29
LS - broken	2,600	69,290	105,040	173,680	147,146	11	11	15	26	204,270	7	9	13	23	333,665	7	9	12	29
LS - crushed	2,600	69,290	105,040	173,680	147,146	11	11	15	26	204,270	7	9	13	23	333,665	7	9	12	29
Sandstone	2,550	67,958	103,020	170,340	145,814	11	11	15	26	202,250	7	9	13	23	330,325	7	9	16	29
Shale	2,100	55,965	84,840	140,280	133,821	11	11	15	26	184,070	7	9	13	31	300,265	7	9	16	29
Stone - crushed	2,700	71,955	109,080	180,360	149,811	11	11	15	26	208,310	7	7	13	23	340,345	7	9	12	29
Tailings - Coarse (dry, loose sand)	2,400	63,960	96,960	160,320	141,816	11	11	15	26	196,190	7	9	13	23	320,305	7	9	16	29
Tailings - Slimes (loose sand & clay)	2,700	71,955	109,080	180,360	149,811	11	11	15	26	208,310	7	7	13	23	340,345	7	9	12	29
Topsoil	1,600	42,640	64,640	106,880	120,496	11	11	15	26	163,870	7	9	17	31	266,865	9	12	16	29
					Empty	15	15	26	36	Empty	13	17	23	42	Empty	16	16	29	39
	Source: Caterpillar Performance Handbook Edition								k Edition 35										

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Dozer Operator Skill:	Average
Grader Operator Skill:	Average
Truck/Scraper Operator:	Average
Loader Operator Skill:	Average
Excavator Operator Skill:	. Average.
Dozer Job Efficiency:	- 50 min/hr
Truck Job Efficiency:	50 min/hr
Scraper Job Efficiency:	50 min/hr
Loader Job Efficiency:	50 min/hr
Excavator Job Efficiency:	50 min/hr
Grader Job Efficiency:	50 min/hr

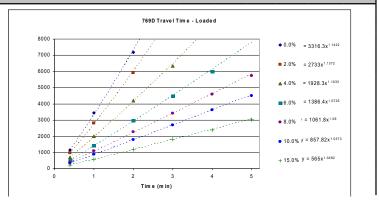
	<u> </u>		<u> </u>	<u> </u>		<u> </u>	Downhi	II Haul Truc	k Speed -	Grade Reta	rding vs. E	Effective G	rade (Gra	de - Rolli	ng Resista	ince)			
	Weight of Mate	rials				785C						793C					797B		
Material	lb/cy	Truck (785C) Load lb	Truck (793C) Load Ib	Truck (797B) Load lb	Loaded Weight (lbs)	20	15	10	5	Loaded Weight (lbs)	20	15	10	5	Loaded Weight (lbs)	20	15	10	5
Alluvium	2,900	261,725	427,750	751,100	485,359	8	8	14	27	782,453	7	7	10	17	1,337,700	7	7	9	17
Basalt	3,300	297,825	486,750	854,700	521,459	8	8	14	27	841,453	7	7	10	17	1,441,300	7	7	9	17
Clay - Dry	2,500	225,625	368,750	647,500	449,259	8	11	14	36	723,453	7	7	10	25	1,234,100	7	7	9	23
Granite - broken	2,800	252,700	413,000	725,200	476,334	8	8	14	27	767,703	7	7	10	17	1,311,800	7	7	9	17
Gravel	2,550	230,138	376,125	660,450	453,772	8	8	14	36	730,828	7	7	10	25	1,247,050	7	7	9	23
LS - broken	2,600	234,650	383,500	673,400	458,284	8	8	14	27	738,203	7	7	10	25	1,260,000	7	7	9	23
LS - crushed	2,600	234,650	383,500	673,400	458,284	8	8	14	27	738,203	7	7	10	25	1,260,000	7	7	9	23
Sandstone	2,550	230,138	376,125	660,450	453,772	8	8	14	36	730,828	7	7	10	25	1,247,050	7	7	9	23
Shale	2,100	189,525	309,750	543,900	413,159	8	11	14	36	664,453	7	7	10	25	1,130,500	7	7	13	23
Stone - crushed	2,700	243,675	398,250	699,300	467,309	8	8	14	27	752,953	7	7	10	17	1,285,900	7	7	9	23
Tailings - Coarse (dry, loose sand)	2,400	216,600	354,000	621,600	440,234	8	11	14	36	708,703	7	7	10	25	1,208,200	7	7	9	23
Tailings - Slimes (loose sand & clay)	2,700	243,675	398,250	699,300	467,309	8	8	14	27	752,953	7	7	10	17	1,285,900	7	7	9	23
Topsoil	1,600	144,400	236,000	414,400	368,034	8	11	19	36	590,703	7	10	13	25	1,001,000	7	9	13	23
					Empty	14	19	36	36	Empty	10	13	17	33	Empty	13	17	23	42

Source: Caterpillar Performance Handbook Edition 35

Productivity - Haul Trucks (cont.)

769D Haul Truck Travel Time - Uphill Loaded										
	Time (min)									
0.4	1	2	3	4	5	k	р			
1,148	3,428	7,183				3316.3	1.1422			
689	1,984	4,198	6,330			1928.3	1.1033			
508	1,427	2,952	4,510	6,002		1386.4	1.0725			
394	1,082	2,263	3,411	4,592	5,740	1061.8	1.06			
328	869	1,771	2,690	3,608	4,510	857.82	1.0373			
213	574	1,181	1,804	2,394	3,018	565	1.0482			
	0.4 1,148 689 508 394 328	0.4 1 1,148 3,428 689 1,984 508 1,427 394 1,082 328 869	Time (min 0.4 1 2 1,148 3,428 7,183 689 1,984 4,198 508 1,427 2,952 394 1,082 2,263 328 869 1,771	Time (min) 0.4 1 2 3 1,148 3,428 7,183 689 1,984 4,198 6,330 508 1,427 2,952 4,510 394 1,082 2,263 3,411 328 869 1,771 2,690 2,691 2,691 2,691	Time (min) 0.4 1 2 3 4 1,148 3,428 7,183 - 689 1,984 4,198 6,330 508 1,427 2,952 4,510 6,002 394 1,082 2,263 3,411 4,592 328 869 1,771 2,690 3,608	Time (min) 0.4 1 2 3 4 5 1,148 3,428 7,183 - - 689 1,984 4,198 6,330 - 508 1,427 2,952 4,510 6,002 394 1,082 2,263 3,411 4,592 5,740 328 869 1,771 2,690 3,608 4,510	Time (min) 0.4 1 2 3 4 5 k 1,148 3,428 7,183 3316.3 689 1,984 4,198 6,330 1928.3 508 1,427 2,952 4,510 6,002 1386.4 394 1,082 2,263 3,411 4,592 5,740 1061.8 328 869 1,771 2,690 3,608 4,510 857.82			

Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{\sqrt{...}}}$ Source: Caterpillar Performance Handbook Edition 35



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Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

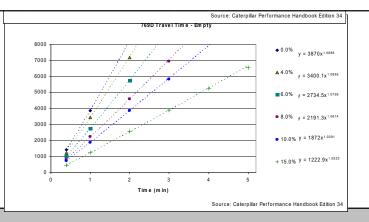
Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Dozer Operator Skill:	Average
Grader Operator Skill:	Average
Truck/Scraper Operator:	: Average:
Loader Operator Skill:	Average
Excavator Operator Skill:	. Average:
Dozer Job Efficiency:	. 50 min/hr
Truck Job Efficiency:	50 min/hr
Scraper Job Efficiency:	50 min/hr
Loader Job Efficiency:	50 min/hr
Excavator Job Efficiency:	50 min/hr
Grader Job Efficiency:	50 min/hr

	76	9D Haul Truck	Travel Time -	Uphill Empt	у				
Total Resistance (%)		Time (min)							
(rolling + grade)	0.4	1	2	3	4	5	k	р	
0	1,427	3,870					3870	1.0888	
4	1,246	3,444	7,183				3400.1	1.0895	
6	1,017	2,755	5,740				2734.5	1.0759	
8	820	2,230	4,592	6,954			2191.3	1.0614	
10	722	1,870	3,870	5,838			1872	1.0391	
15	459	1,246	2,558	3,903	5,248	6,560	1222.9	1.0523	

p√distance Travel Time (min) =

Source: Caterpillar Performance Handbook Edition 35

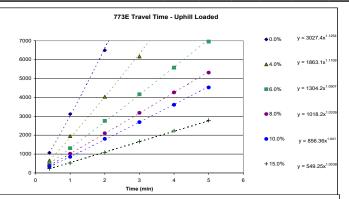


Productivity - Haul Trucks (cont.)

	773	E Haul Truck T	ravel Time -	Uphill Loade	d			
Total Resistance (%)	6) Time (min)							
(rolling + grade)	0.4	1	2	3	4	5	k	р
0	1,066	3,117	6,496				3027.4	1.1254
4	656	1,952	4,035	6,168			1863.1	1.1109
6	492	1,312	2,756	4,167	5,577	6,955	1304.2	1.0507
8	394	1,017	2,100	3,182	4,265	5,315	1018.2	1.0326
10	328	853	1,804	2,690	3,609	4,528	856.36	1.041
15	226	525	1,083	1,673	2,231	2,789	549.25	1.0038

distance Travel Time (min) =

Source: Caterpillar Performance Handbook Edition 35



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Project Name: Rosemont Copper World Mined Land Reclamation Plan-Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

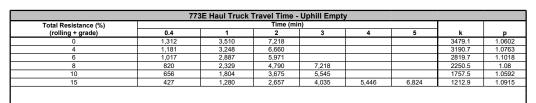
Model Version: Version 1.4.1

Cost Data: User Data

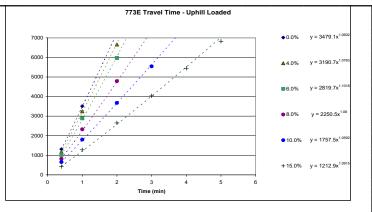
Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Dozer Operator Skill:	Average
Grader Operator Skill:	Average
Truck/Scraper Operator:	Average:
Loader Operator Skill:	Average
Excavator Operator Skill:	. Average.
Dozer Job Efficiency:	. 50 min/hr
Truck Job Efficiency:	50 min/hr
Scraper Job Efficiency:	50 min/hr
Loader Job Efficiency:	50 min/hr
Excavator Job Efficiency:	50 min/hr
Grader Job Efficiency:	50 min/hr



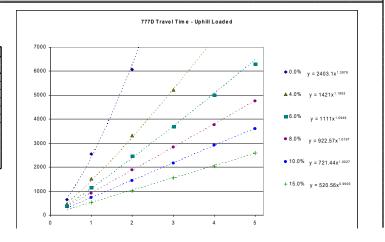
Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$



Productivity - Haul Trucks (cont.)

	77	7D Haul Truck	Travel Time -	Uphill Loade	d			
Total Resistance (%)		Time (min)						
(rolling + grade)	0.4	1	2	3	4	5	k	р
0	656	2,558	6,068				2403.1	1.3876
4	459	1,509	3,313	5,215	7,085		1412	1.1863
6	394	1,148	2,460	3,706	5,018	6,298	1111	1.0949
8		918	1,886	2,837	3,772	4,756	922.57	1.0197
10		722	1,443	2,165	2,919	3,608	721.44	1.0027
15		525	1,017	1,558	2,034	2,591	520.56	0.9905

Travel Time (min) = $\sqrt[h]{\frac{\text{distance}}{K}}$ Source: Caterpillar Performance Handbook Edition 35



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Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

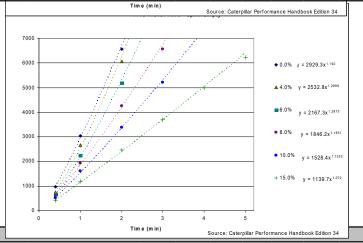
Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Dozer Operator Skill:	Average
Grader Operator Skill:	Average
Truck/Scraper Operator:	Average
Loader Operator Skill:	Average
Excavator Operator Skill:	. Average.
Dozer Job Efficiency:	- 50 min/hr
Truck Job Efficiency:	50 min/hr
Scraper Job Efficiency:	50 min/hr
Loader Job Efficiency:	50 min/hr
Excavator Job Efficiency:	50 min/hr
Grader Job Efficiency:	50 min/hr

Total Resistance (%)			Time (mi	n)				
(rolling + grade)	0.4	1	2	3	4	5	k	р
0	968	3,034	6,560				2929.3	1.19
4	754	2,657	6,068				2532.8	1.29
6	656	2,247	5,182				2167.3	1.28
8	607	1,935	4,248	6,560			1846.2	1.18
10	525	1,607	3,378	5,215	7,282		1528.4	1.13
15	410	1,197	2,460	3,706	4,986	6,232	1139.7	1.07

p distance Travel Time (min) =

Source: Caterpillar Performance Handbook Edition 35

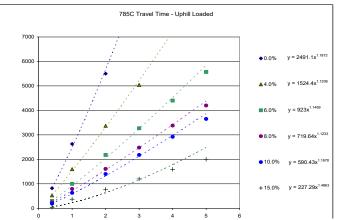


Productivity - Haul Trucks (cont.)

	785	C Haul Truck T	ravel Time -	Uphill Loade	d					
Total Resistance (%)	Time (min)							%) Time (min)		
(rolling + grade)	0.4	1	2	3	4	5	k	р		
0	820	2,630	5,500				2491.1	1.1872		
4	530	1,600	3,370	5,040			1524.4	1.1206		
6	300	1,000	2,180	3,270	4,400	5,570	923	1.1469		
8	240	790	1,610	2,480	3,380	4,200	719.64	1.1233		
10	190	630	1,400	2,180	2,920	3,650	590.43	1.1678		
15	40	370	770	1,200	1,590	2,000	227.29	1.4863		

p distance · Travel Time (min) =

Source: Caterpillar Performance Handbook Edition 35



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Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

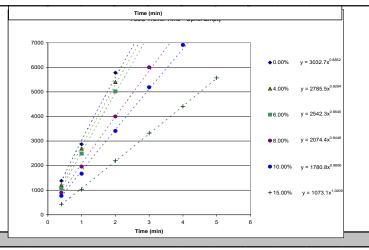
Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Dozer Operator Skill:	Average
Grader Operator Skill:	Average
Truck/Scraper Operator:	Average:
Loader Operator Skill:	Average
Excavator Operator Skill:	. Average:
Dozer Job Efficiency:	· 50 min/hr :
Truck Job Efficiency:	50 min/hr
Scraper Job Efficiency:	50 min/hr
Loader Job Efficiency:	50 min/hr
Excavator Job Efficiency:	50 min/hr
Grader Job Efficiency:	:50.min/hr :

	78	5C Haul Truck	Travel Time -	Uphill Empt	y			
Total Resistance (%)			Time (mi	n)				
(rolling + grade)	0.4	1	2	3	4	5	k	р
0	1,380	2,870	5,780				3032.7	0.8852
4	1,210	2,690	5,400				2785.5	0.9264
6	1,060	2,490	5,020				2542.3	0.9645
8	900	1,960	4,000	6,000			2074.4	0.9446
10	770	1,670	3,410	5,190	6,910		1780.8	0.9606
15	430	1,030	2,200	3,320	4,410	5,570	1073.1	1.0209

distance Travel Time (min) =

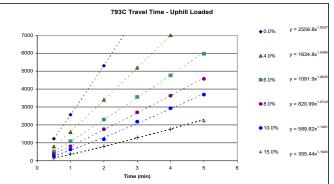
Source: Caterpillar Performance Handbook Edition 35



Productivity - Haul Trucks (cont.)

	793C Haul Truck Travel Time - Uphill Loaded									
Total Resistance (%)		Time (min)								
(rolling + grade)	0.5	1	2	3	4	5	k	р		
0	1,230	2,570	5,300				2558.8	1.0537		
4	800	1,600	3,400	5,190	7,000		1634.8	1.0485		
6	520	1,090	2,300	3,560	4,760	5,970	1091.9	1.0635		
8	390	810	1,760	2,700	3,630	4,570	820.99	1.0743		
10	260	630	1,200	2,180	2,930	3,690	589.82	1.1481		
15	150	380	810	1,300	1,760	2,210	355.44	1.1605		
	•	•	•	•	•	*				

distance Travel Time (min) =



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Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

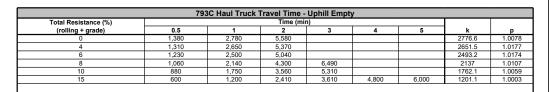
Model Version: Version 1.4.1

Cost Data: User Data

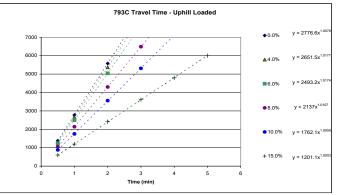
Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Basis: Southern Nevada - Adjusted for Arizona Cost Estimate Type: Surety

Grader Operator Skill: Average	. :
Truck/Scraper Operator: Average	
Loader Operator Skill: Average	:
Excavator Operator Skill: Average	
Dozer Job Efficiency: 50 min/h	
Truck Job Efficiency: 50 min/h	Ċ
Scraper Job Efficiency: 50 min/h	
Loader Job Efficiency: 50 min/h	Ċ
Excavator Job Efficiency: 50 min/h	Ė
Grader Job Efficiency: 50 min/h	



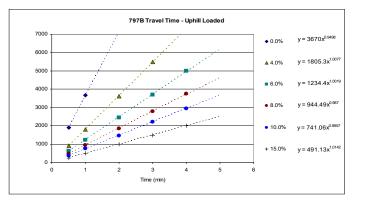
Travel Time (min) =



Productivity - Haul Trucks (cont.)

	79	7B Haul Truck	Travel Time -	Uphill Loade	ed				
Total Resistance (%)			Time (mi	n)					
(rolling + grade)	0.5	1	2	3	4	5	k	р	
0	1,900	3,670					3670	0.9498	
4	900	1,800	3,620	5,480			1805.3	1.0077	
6	620	1,230	2,450	3,700	5,000		1234.4	1.0019	
8	480	940	1,850	2,790	3,750		944.49	0.987	
10	370	750	1,460	2,220	2,950		741.06	0.9957	
15	240	500	1,000	1,480	2,000		491.13	1.0142	

distance Travel Time (min) = Source: Caterpillar Performance Handbook Edition 35



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Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

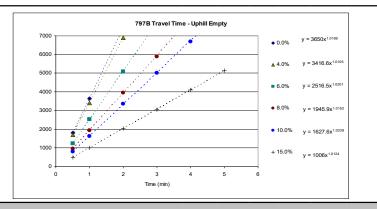
Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Dozer Operator Skill:	Average
Grader Operator Skill:	Average
Truck/Scraper Operator:	: Average:
Loader Operator Skill:	Average
Excavator Operator Skill:	: Average:
Dozer Job Efficiency:	50 min/hr
Truck Job Efficiency:	50 min/hr
Scraper Job Efficiency:	50 min/hr
Loader Job Efficiency:	50 min/hr
Excavator Job Efficiency:	50 min/hr
Grader Job Efficiency:	50 min/hr

	797B Haul Truck Travel Time - Uphill Empty								
Total Resistance (%)	Time (min)								
(rolling + grade)	0.5	1	2	3	4	5	k	р	
0	1,800	3,650					3650	1.0199	
4	1,700	3,400	6,900				3416.6	1.0105	
6	1,240	2,520	5,100				2516.5	1.0201	
8	960	1,950	3,960	5,900			1945.9	1.0152	
10	800	1,620	3,350	5,000	6,700		1627.6	1.0239	
15	500	1,000	2,040	3,050	4,100	5,130	1006	1.0124	

distance Travel Time (min) =



Productivity - Articulated Trucks

Description	725	730	735	740
Chassis Weight (lb)				
Body Weight (lb)				
Standard Liner Weight (lb)				
Operating Weight (Empty) (lb)	50,120	51,220	65,830	72,070
Payload Capacity (cy)				
Struck	14.5	17.1	19.3	23.3
Heaped	18.8	22.1	31.8	30.2
Average	16.65	19.6	25.55	26.75
Maneuver to Load Time (min)	0.7	0.7	0.7	0.7
Maneuver and Dump Time (min)	1.1	1.1	1.1	1.1
Job Efficiency	0.83	0.83	0.83	0.83
Rolling Resistance**	2.5	2.5	2.5	2.5
Altitude Deration Factor	1	1	1	1

*A firm, smooth, rolling roadway with dirt or light surfacing, flexing slightly under load

or undulating, maintained fairly regularly, watered

Source: Caterpillar Performance Handbook Edition 35

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022
File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Dozer Operator Skill:	Average
Grader Operator Skill:	Average
Truck/Scraper Operator:	Average
Loader Operator Skill:	Average
Excavator Operator Skill:	: Average:
Dozer Job Efficiency:	50 min/hr
Truck Job Efficiency:	50 min/hr
Scraper Job Efficiency:	50 min/hr
Loader Job Efficiency:	50 min/hr
Excavator Job Efficiency:	50 min/hr
Grader Job Efficiency:	50 min/hr

					Downhill Hau	I Truck Speed	I - Grade Reta	rding vs. Effe	ective Grade	(Grade - R	olling Resis	tance)	
Weig	ht of Materials			725					730				
Material	lb/cy	Truck (725) Load Ib	Truck (730) Load Ib	Loaded Weight (lbs)	20	15	10	5	Loaded Weight (lbs)	20	15	10	5
Alluvium	2,900	48,285	56,840	98,405	9	9	13	30	108,060	5	8	13	29
Basalt	3,300	54,945	64,680	105,065	5	9	13	22	115,900	5	8	13	29
Clay - Dry	2,500	41,625	49,000	91,745	9	13	13	30	100,220	8	8	13	29
Granite - broken	2,800	46,620	54,880	96,740	9	13	13	30	106,100	5	8	13	29
Gravel	2,550	42,458	49,980	92,578	9	13	13	30	101,200	8	8	13	29
LS - broken	2,600	43,290	50,960	93,410	9	13	13	30	102,180	8	8	13	29
LS - crushed	2,600	43,290	50,960	93,410	9	13	13	30	102,180	8	8	13	29
Sandstone	2,550	42,458	49,980	92,578	9	13	13	30	101,200	8	8	13	29
Shale	2,100	34,965	41,160	85,085	9	13	22	30	92,380	8	13	13	29
Stone - crushed	2,700	44,955	52,920	95,075	9	13	13	30	104,140	8	8	13	29
Tailings - Coarse (dry, loose sand)	2,400	39,960	47,040	90,080	9	13	13	30	98,260	8	8	13	29
Tailings - Slimes (loose sand & clay)	2,700	44,955	52,920	95,075	9	13	13	30	104,140	8	8	13	29
Topsoil	1,600	26,640	31,360	76,760	9	13	22	30	82,580	8	13	22	35
•				Empty	13	13	22	30	Empty	13	13	22	35

Source: Caterpillar Performance Handbook Edition 35

					Downhill Ha	ul Truck Speed	d - Grade Reta	rding vs. Eff	ective Grade	(Grade - R	olling Resis	stance)	
Weight of Materials				735						740			
Material	lb/cy	Truck (735) Load Ib	Truck (740) Load Ib	Loaded Weight (lbs)	20	15	10	5	Loaded Weight (lbs)	20	15	10	5
Alluvium	2,900	74,095	77,575	139,925	7	9	13	27	149,645	7	9	17	23
Basalt	3,300	84,315	88,275	150,145	7	9	13	27	160,345	7	9	13	23
Clay - Dry	2,500	63,875	66,875	129,705	7	9	13	27	138,945	9	13	17	31
Granite - broken	2,800	71,540	74,900	137,370	7	9	13	27	146,970	7	9	17	23
Gravel	2,550	65,153	68,213	130,983	7	9	13	27	140,283	7	9	17	31
LS - broken	2,600	66,430	69,550	132,260	7	9	13	27	141,620	7	9	17	31
LS - crushed	2,600	66,430	69,550	132,260	7	9	13	27	141,620	7	9	17	31
Sandstone	2,550	65,153	68,213	130,983	7	9	13	27	140,283	7	9	17	31
Shale	2,100	53,655	56,175	119,485	9	9	18	27	128,245	7	13	17	31
Stone - crushed	2,700	68,985	72,225	134,815	7	9	13	27	144,295	7	9	17	23
Tailings - Coarse (dry, loose sand)	2,400	61,320	64,200	127,150	7	9	13	27	136,270	9	13	17	31
Tailings - Slimes (loose sand & clay)	2,700	68,985	72,225	134,815	7	9	13	27	144,295	7	9	17	23
Topsoil	1,600	40,880	42,800	106,710	9	13	18	36	114,870	9	13	17	31
•				Empty	13	18	27	42	Empty	17	17	23	31
										Source:	Caterpillar Perfo	rmance Handbo	ook Edition 35

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Dozer Operator Skill:	Average
Grader Operator Skill:	Average
Truck/Scraper Operator:	Average
Loader Operator Skill:	Average
Excavator Operator Skill:	. Average.
Dozer Job Efficiency:	50 min/hr
Truck Job Efficiency:	50 min/hr
Scraper Job Efficiency:	50 min/hr
Loader Job Efficiency:	50 min/hr
Excavator Job Efficiency:	50 min/hr
Grader Job Efficiency:	50 min/hr

Productivity - Articulated Trucks (cont.)

	725 Articulated Truck Travel Time - Uphill Loaded									
Total Resistance (%)		Time (min)								
(rolling + grade)	0.5	1	2	3	4	5	k	р		
0	600	2,190	5,200				2097.3	1.3455		
4	420	1,400	3,200	5,000	6,820		1329.1	1.2109		
6	400	1,080	2,390	3,630	4,950	6,200	1091.2	1.0904		
8	380	880	1,850	2,850	3,850	4,820	928.59	1.0158		
10	300	729	1,450	2,250	3,020	3,800	741.09	1.0076		
15	200	500	1,000	1,570	2,100	2,620	504.55	1.0225		

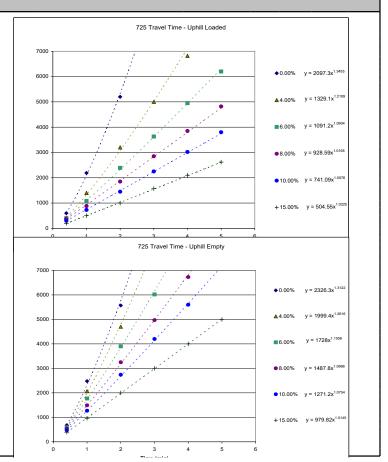
Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{\kappa}}$

Source: Caterpillar Performance Handbook Edition 35

	725 Haul Truck Travel Time - Uphill Empty							
Total Resistance (%)	Time (min)							
(rolling + grade)	0.5	1	2	3	4	5	k	р
0	680	2,480	5,570				2326.3	1.3122
4	620	2,070	4,700				1999.4	1.2616
6	590	1,770	3,900	6,020			1728	1.1556
8	540	1,490	3,250	4,970	6,730		1487.8	1.0986
10	470	1,270	2,740	4,200	5,600	7,050	1271.2	1.0754
15	390	960	2,000	3,000	4,000	5,000	979.82	1.0145

Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{\nu}}$

Source: Caterpillar Performance Handbook Edition 35



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Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

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Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Dozer Operator Skill:	Average
Grader Operator Skill:	Average
Truck/Scraper Operator:	Average
Loader Operator Skill:	Average
Excavator Operator Skill:	. Average.
Dozer Job Efficiency:	50 min/hr
Truck Job Efficiency:	50 min/hr
Scraper Job Efficiency:	50 min/hr
Loader Job Efficiency:	50 min/hr
Excavator Job Efficiency:	50 min/hr
Grader Job Efficiency:	50 min/hr

Productivity - Articulated Trucks (cont.)

	730 Articulated Truck Travel Time - Uphill Loaded							
Total Resistance (%)	_		Time (mi	n)				
(rolling + grade)	0.5	1	2	3	4	5	k	р
0	780	2,250	5,240				2095	1.374
4	610	1,390	3,170	4,930	6,880		1382	1.1651
6	540	1,100	2,340	3,550	5,780	6,000	112	1.0847
8	460	920	1,840	2,810	3,770	4,760	922.63	1.0145
10	390	750	1,420	2,170	2,880	3,600	751.26	0.965
15	300	560	1,050	1,500	1,995	2,500	560.84	0.9152

Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$

Source: Caterpillar Performance Handbook Edition 35

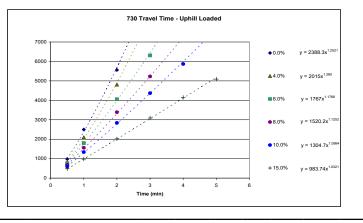
	730 Travel Time - Uphill Loaded		
7000			y = 2095.1x ^{1.374}
6000		♦0.00%	,
5000	<u>, ja ja ja ja ja ja ja ja ja ja ja ja ja </u>	▲4.00%	y = 1382x ^{1.1651}
4000		■6.00%	y = 1124x ^{1.0847}
3000	The second secon	●8.00%	y = 922.63x ^{1.0145}
2000	<u> </u>	• 10.00%	y = 751.26x ^{0.965}
1000		+ 15.00%	y = 560.84x ^{0.9152}
۰ ا	1 2 3 4 5	6	
	Time (min)		

Time (min)

	730 Haul Truck Travel Time - Uphill Empty								
Total Resistance (%)			Time (mi	n)					
(rolling + grade)	0.5	1	2	3	4	5	k	р	
0	980	2,500	5,560				2388	1.25621	
4	810	2,100	4,810				2015	1.285	
6	770	1,800	4,060	6,310			1767	1.1766	
8	680	1,560	3,390	5,230	7,070		1520.2	1.1252	
10	595	1,340	2,840	4,370	5,870		1304.7	1.0994	
15	480	980	2,020	3,090	4,150	5,090	983.74	1.0321	
	-								

Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{\kappa}}$

Source: Caterpillar Performance Handbook Edition 35



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Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Dozer Operator Skill:
Grader Operator Skill:
Truck/Scraper Operator:
Loader Operator Skill:
Excavator Operator Skill:
Dozer Job Efficiency:
Truck Job Efficiency:
Scraper Job Efficiency:
Loader Job Efficiency:
Excavator Job Efficiency:
Grader Job Efficiency:
Truck/Scraper Operator: Loader Operator Skill: Excavator Operator Skill: Dozer Job Efficiency: Truck Job Efficiency: Scraper Job Efficiency: Loader Job Efficiency: Excavator Job Efficiency:

Productivity - Articulated Trucks (cont.)

735 Articulated Truck Travel Time - Uphill Loaded								
Total Resistance (%)			Time (mi	n)				
(rolling + grade)	0.5	1	2	3	4	5	k	р
0	700	2,200	5,020				2166	1.2254
4	550	1,350	2,950	4,520	6,100		1410.5	1.0528
6	450	1,020	2,200	3,400	4,570	5,770	1095.6	1.0223
8	390	810	1,650	2,530	3,370	4,200	879.73	0.9546
10	340	700	1,400	2,100	2,800	3,500	754.84	0.9332
15	230	500	970	1,400	1,900	2,390	519.31	0.9268

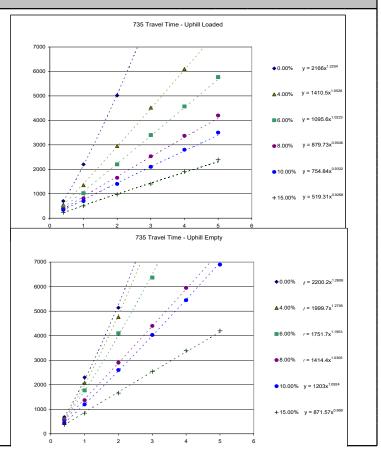
Travel Time (min) = $\sqrt[P]{\frac{\text{distance}}{k}}$

Source: Caternillar Performance Handbook Edition 35

Total Resistance (%)		Time (min)							
(rolling + grade)	0.5	1	2	3	4	5	k	р	
0	680	2,300	5,140				2200.2	1.2606	
4	610	2,070	4,760				1999.7	1.2795	
6	580	1,770	4,100	6,370			1751.7	1.1953	
8	560	1,370	2,900	4,400	5,950		1414.4	1.0306	
10	440	1,200	2,600	4,030	5,450	6,900	1203	1.0924	
15	370	840	1,660	2,540	3,390	4,200	871.57	0.969	

Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{\sqrt{\frac{1}{2}}}}$

Source: Caterpillar Performance Handbook Edition 35



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Project Name: Rosemont Copper World Mined Land Reclamation Plan-Reclamation Plan

Date of Submittal: May 3, 2022

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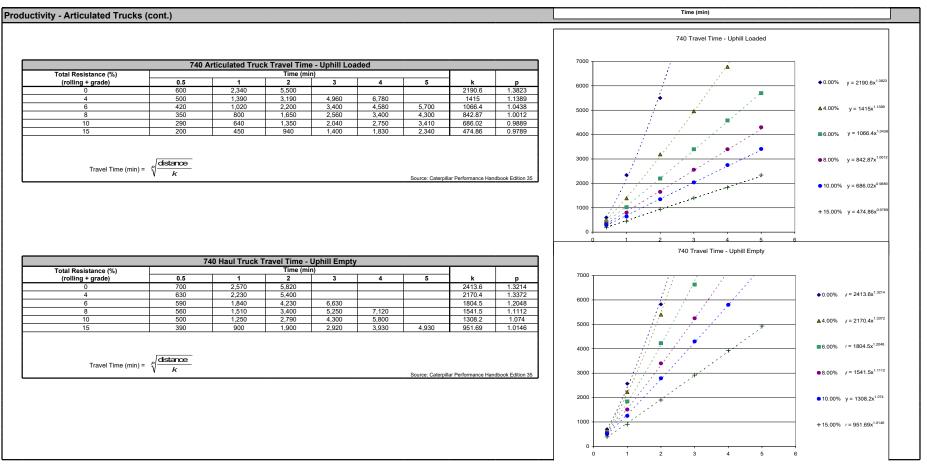
Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Dozer Operator Skill:	Average
Grader Operator Skill:	Average
Truck/Scraper Operator:	Average
Loader Operator Skill:	Average
Excavator Operator Skill:	: Average:
Dozer Job Efficiency:	50 min/hr
Truck Job Efficiency:	50 min/hr
Scraper Job Efficiency:	50 min/hr
Loader Job Efficiency:	50 min/hr
Excavator Job Efficiency:	50 min/hr
Grader Job Efficiency:	.50 min/hr



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Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: May 3, 2022

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Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Basis: Southern Nevada - Adjusted for Arizona Cost Estimate Type: Surety

Dozer Operator Skill:	. Average
Grader Operator Skill:	Average
Truck/Scraper Operator:	: Average:
Loader Operator Skill:	Average
Excavator Operator Skill:	. Average
Dozer Job Efficiency:	- 50 min/hr
Truck Job Efficiency:	50 min/hr
Scraper Job Efficiency:	50 min/hr
Loader Job Efficiency:	50 min/hr
Excavator Job Efficiency:	50 min/hr
Grader Job Efficiency:	50 min/hr

Productivity - Wheel Loaders

Wheel Loader Specifications														
Description	924G	928G	950G	966G	972G	972G (2)	980G	988G	988G(2)	990	992G	992G(2)	994D	L2350
Payload Capacity (cy)														
Struck	2.2	2.5	3.46	4.46	4.71	4.71	6.34	6.9	6.9	9.5	13.2	13.2	18	
Heaped	2.7	3.25	4	5.25	5.5	5.5	7.25	8.33	8.33	11.25	16	16	22.5	
Average	2.45	2.875	3.73	4.855	5.105	5.105	6.795	7.615	7.615	10.375	14.6	14.6	20.25	53
Matched Truck	N/A	N/A	N/A	725	730	735	N/A	740	769D	773D	777D	785C	793C	797B
Average Cycle Time (min)	0.45	0.45	0.5	0.5	0.5	0.5	0.55	0.55	0.55	0.55	0.6	0.6	0.6	0.75
Passes to Fill Truck	N/A	N/A	N/A	3	4	5	N/A	4	3	4	5	6	7	5
Altitude Deration Factor	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Operator Efficiency	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Job Efficiency	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Time to Fill Truck	N/A	N/A	N/A	1.5	2	2.5	N/A	2.2	1.65	2.2	3	3.6	4.2	3.75
Rolling Resistance**	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5

Loader matched to small truck fleet Loader matched to medium truck fleet Loader matched to large truck fleet

Loader matched to extra large truck fleet

**A firm, smooth, rolling roadway with dirt or light surfacing, flexing slightly under load or undulating, maintained fairly regularly, watered 992G (2) - can be used to load 785 with 6 passes

Source: Caterpillar Performance Handbook Edition 35; LeTourneau/actual Chilean mine operating data for L2350

Time (min)

	Wheeled Loaders	General Purpose	Spade Nose- Rock
928G		3.25 cubic yard	not available
966G		5.0 cubic yard	not available
972G		5.5 cubic yard	not available
988G		not available	8.3 cubic yard
992G		not available	16.0 cubic yard

note: capacities are 2:1 heaped, SAE standards

NOTES: Buckets for both Track Excavators and Wheel Loaders are offered by CECo & available for the rental rates quoted. Bucket sizes and capacities obtained from CATERPILLAR PERFORMANCE HANDBOOK, ED 34; Section 12, Wheel Loader and Section 4, Excavators

Bucket capacity and width dictated by material weight and configuration, ie., shot, loose, tight bank, stockpile, rock, etc. Typical Nevada applications were used to determine above bucket capacities as related to materials & densities. Job site specifics may alter specific oucket requirements. (Cashman Equipment, Elko, Nevada - February 21, 2005)

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

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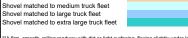
Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Dozer Operator Skill:	Average
Grader Operator Skill:	Average
Truck/Scraper Operator:	: Average:
Loader Operator Skill:	Average
Excavator Operator Skill:	: Average:
Dozer Job Efficiency:	50 min/hr
Truck Job Efficiency:	50 min/hr
Scraper Job Efficiency:	50 min/hr
Loader Job Efficiency:	50 min/hr
Excavator Job Efficiency:	50 min/hr
Grader Job Efficiency:	50 min/hr

Productivity - Shovels

Shovel Specifications (Komatsu equivalent)								
Description	PC2000	PC3000	PC4000	PC5500	PC8000			
Payload Capacity (cy)								
Struck	10.46	18.84	26.16	33.48	47.09			
Heaped	14.39	25.9	35.97	46.04	64.75			
Average	12.43	22.37	31.07	39.76	55.92			
Matched Truck	740	777D	785C	793C	797B			
Average Cycle Time (min)	0.49	0.49	0.59	0.59	0.69			
Passes to Fill Truck	2.05	2.84	3.38	4.69	5.11			
Altitude Deration Factor	1	1	0.9	1	1			
Operator Efficiency	1	1	1	1	1			
Job Efficiency	0.83	0.83	0.83	0.83	0.83			
Time to Fill Truck	1.68	2.33	3.32	4.61	5.86			
Rolling Resistance**	2.5	2.5	2.5	2.5	2.5			

Shovel matched to small truck fleet Shovel matched to medium truck fleet



*A firm, smooth, rolling roadway with dirt or light surfacing, flexing slightly under load or undulating, maintained fairly regularly, watered 992G (2) - can be used to load 785 with 6 passes

Source: Caterpillar Performance Handbook Edition 35; Komatsu actual Peruvian mine (Lagunas Norte) operating data for PC4000.

Productivity - Motor Graders

5/4/2022

Motor Grader Specifications						
Description	120H	14G/H	16G/H	24M		
Grader Width (ft)	8	9.25	10.08	14.04		
Blade Width (ft)	12	14	16	16		
Ripper Width (7 shanks) (ft)	7.6	8.5	9.75	12.83		
Road Maintence Speed (mph)						
Minimum	3	3	3	3		
Maximum	9.5	9.5	9.5	9.5		
Average	6.25	6.25	6.25	6.25		
Hourly Production	33,000	33,000	33,000	33,000		
Ripping Speed (mph)	1	1	1	1		
Minimum	0	0	0	0		
Maximum	3	3	3	3		
Average	1.5	1.5	1.5	1.5		
Altitude Deration Factor	1	1	1	1		
Hourly Production (with job efficiency						
correction & altitude deration factors)						
(excluding manuever time)	6,574	6,574	6,574	6,574		
Maneuver time per pass (min)	0.5	0.5	0.5	0.5		
Operator Efficiency	1	1	1	1		
Job Efficiency	0.83	0.83	0.83	0.83		

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Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: May 3, 2022

File Name: Rosemont_RP21_MLRP_SRCE_Version_1_4_1_017_NVb_050322.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE_Cost_data-USR_1_12.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Average
Average
Average:
Average
. Average.
50 min/hr
50 min/hr
50 min/hr
50 min/hr
50 min/hr
50 min/hr

Productivity - Excavators

	Tra	ack Excavator	Specification	s			
Description	312C	320C	325C	330C	345B	365BL	385BL
Bucket Capacity (cy)	0.68	1.57	2.22	2.22	3	4.6	7.3
Fill Factor	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Average Bucket Load (cy)	0.612	1.413	1.998	1.998	2.7	4.14	6.57
Soil Type	packed earth	hard clay	hard clay	hard clay	hard clay	hard clay	hard clay
Job Condition	med-hard	med-hard	med-hard	med-hard	med-hard	med-hard	med-hard
Cycle Times (minutes) - based on hard clay							
Load Bucket	0.07	0.09	0.09	0.09	0.13	0.1	0.19
Swing Loaded	0.06	0.06	0.06	0.07	0.07	0.09	0.06
Dump Bucket	0.03	0.03	0.04	0.04	0.02	0.04	0.03
Swing Empty	0.05	0.05	0.06	0.07	0.06	0.07	0.07
Total Cycle Time	0.21	0.23	0.25	0.27	0.28	0.3	0.35
Job Efficiency	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Operator Efficiency	1	1	1	1	1	1	1
Altitude Deration Factor	1	1	1	1	1	1	1
Corrected Productivity (LCY/hr)	145	306	398	369	480	687	935
Exploration Road Cycle Time (1) (min)	N/A	0.38	0.4	N/A	0.42	N/A	N/A
Exploration Road Corr Prod (LCY/hr)	N/A	185	249	N/A	320	N/A	N/A
Track Width (ft)	8.17	9.17	9.83	10.5	11.42	11.5	11.5
Ditch/Trench Excavation							
Bucket Capacity (cy)	0.42	0.58	0.88	0.89	2.09	3.27	2.75
Fill Factor	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Corrected Productivity (LCY/hr)	50	63	88	82	186	271	196

Source: Caterpillar Performance Handbook Edition 35

Track Excavators	Hvy Duty Rock	Extreme Service Exc	Hvy Duty Trench
		(e.g. haulroad recontour)	
312C	30", 0.68 cubic yd	47", 0.94 cubic yd	22", .42 cubic yd
320C	30", 0.90 cubic yd	55.1", 1.57 cubic yd	23.6", .58 cubic yd
325C	36", 1.25 cubic yd	60", 2.22 cubic yd	30", .88 cubic yd
330C	36", 1.25 cubic yd	60", 2.22 cubic yd	30", .89 cubic yd
345B	43.2", 1.69 cubic yd	65", 3.0 cubic yd	48", 2.09 cubic yd
365BL	60", 3.25 cubic yd	82", 4.6 cubic yd	59", 3.27 cubic yd
385BL	85", 6.30 cubic yd.	96.0, 7.30 cubic yd	57", 2.75 cubic yd

Note: capacities are 2:1 heaped, SAE standards
NOTES: Buckets for both Track Excavators and Wheel Loaders are offered by CECo &

NOTES: Buckets for both Track Excavators and wheel Loaders are offered by CECo

available for the rental rates quoted. Bucket sizes and capacities obtained from CATERPILLAR PERFORMANCE HANDBOOK, ED 34, Section 12, Wheel Loader and Section 4, Excavators Bucket capacity and width dictated by material weight and configuration, i.e., shot, loose, flight bank, stockpile, rock, etc. Typical Nevada applications were used to determine above bucket capacities as related to materials & densities. Job site specifics may alter specific bucket requirements (Cashman Equipment, Eliko, Nevada - February 21, 2005)

(1) Exploration cycle time assumes feathering/smoothing performed by excavator

Concrete Breaking Production

Track Excavator w/Hammer Specifications									
Description	325C	345B	385BL						
Hydraulic Hammer	H120D s	H160D s	H180D s						
Material	reinforced concrete								
Min Shift Production (yd3/8hr)	160	300	350						
Max Shift Production (yd3/8hr)	300	850	1,550						
Avg Shift Production (8hr)	230	575	950						
Job Efficiency	0.83	0.83	0.83						
Altitude Deration Factor	1	1	1						

Source: Caterpillar Performance Handbook Edition 35

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Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Dozer Operator Skill:	Average
Grader Operator Skill:	Average
Truck/Scraper Operator:	Average
Loader Operator Skill:	Average
Excavator Operator Skill:	. Average.
Dozer Job Efficiency:	50 min/hr
Truck Job Efficiency:	50 min/hr
Scraper Job Efficiency:	50 min/hr
Loader Job Efficiency:	50 min/hr
Excavator Job Efficiency:	50 min/hr
Grader Job Efficiency:	50 min/hr

Drill Hole Plugging Productivity

Drill Hole Pluggir	ng Productivity	
Description	Drill Rig	Pump Rig
Move-to-hole, set-up, tear-down (1)	2	2
Trip in tremmie pipe (1)	500	
Pulling casing (threaded, not cemented)	200	
Single-pass perforating (water wells)	uctivity(all passes) (2) (Passes
4	60	4
6	60	4
8	50	4
12	45	6
18	40	9
24	28	12
Perforation setup,trip in/out,tear-down	2	
Perforation tool cost (wear cost)(3)	2.5	
In and Made size Discourant (books)		
Inert Material Placement (backfill) Grouting/Cement (4) (cy/hr)	-	5.33
Cuttings (see below) (cy/hr)		3.5

 Drillers daily logs from Newmont, Barrick, New West Gold, Agnico Eagle, Idaho General Mines Inc. Sources:

Drillers daily logs from Newmont, Barrick, Target Minerals

Drillers daily logs from Newmont
 WDC Exploration, Dec 2005

Sournce: WDC Exploration, Dec 2005

Cuttings Placement Productivity
Shift productivity (Means 02210-7000120; Crew B11M) 28 cy / shift Shift length 8 hours 3.5 cy / hour Estimated Hourly Productivity

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Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

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Dozer Operator Skill:	Average
Grader Operator Skill:	Average
Truck/Scraper Operator:	Average
Loader Operator Skill:	Average
Excavator Operator Skill:	: Average:
Dozer Job Efficiency:	50 min/hr
Truck Job Efficiency:	50 min/hr
Scraper Job Efficiency:	50 min/hr
Loader Job Efficiency:	50 min/hr
Excavator Job Efficiency:	50 min/hr
Grader Job Efficiency:	50 min/hr

	1	Altitude	Deration	Table
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						Elevation						
	0-760	m	760-1	500 m	1500-2	2300 m	2300-3	000 m	3000-	3800 m	3800-4	4600 m
	(0-25)			-5000')		7000')	(7500-1			-12,000')		-15,000')
MODEL	CAT	User	CAT	User	CAT	User	CAT	User	CAT	User	CAT	User
Bulldozers												
D6R	100		100		100		100		92		84	
D6R w/ Winch	100		100		100		100		92		84	
D7R	100		100		100		100		100		96	
D8R	100		100		100		93		85		77	
D9R	100		100		100		93		85		77	
D10R	100		100		100		100		97		89	
D11R	100		100		100		93		85		77	
Wheeled Dozers												
824G	100		100		100		100		92		84	
834G	100		100		100		100		92		84	
844	100		100		100		100		100		96	
854G	100		100		100		93		85		77	
Graders												
120H	100		100		100		100		96		93	
14G/H	100		100		100		100		98		96	
16G/H	100		100		100		100		98		96	
24M	100		100		100		100		98		96	
Excavators	•	•	•	•			•	•				
312C	100		100		100		83		78		73	
320C	100		100		90		87		83		76	
325C	100		100		100		100		100		100	
330C	100		100		100		100		100		100	
345B	100		100		100		100		93		93	
365BL	100		100		100		86		86		86	
385BL	100		100		100		93		85		78	
Scrapers												
631G	100		100		100		100		97		90	
637G	100		100		100		95		87		80	
Loaders												
924G	100		100		100		100		97		89	
928G	100		100		100		100		92		85	
950G	100		100		100		100		100		100	
966G	100		100		100		100		96		88	
972G	100		100		92		84		77		70	
980G	100		100		100		100		96		88	
988G	100		100		100		95		85		75	
990	100		100		100		100		92		85	
992G	100		100		100		100		93		87	
994D	100		100		100		100		96		88	
L2350	100		100		100		100		96		90	
Shovels	100		100		100		100		- 50		- 50	
PC2000	100		100		100		100		96		90	
PC3000	100		100		100		100		96		90	
PC4000	100		100		100		100		96		90	
PC5500	100		100		100		100		96		90	
FC3300	1 100		100		100		100		1 90		1 90	

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Grader Operator Skill:	Average
Truck/Scraper Operator:	: Average:
Loader Operator Skill:	Average
Excavator Operator Skill:	: Average:
Dozer Job Efficiency:	- 50 min/hr
Truck Job Efficiency:	50 min/hr
Scraper Job Efficiency:	50 min/hr
Loader Job Efficiency:	50 min/hr
Excavator Job Efficiency:	50 min/hr
Grader Job Efficiency:	50 min/hr

Other Equipment							
420D 4WD Backhoe	99	97	95	91	91	91	
428D 4WD Backhoe	99	97	95	91	91	91	
CS533E Vibratory Roller	100	100	98	95	91	86	
CS633E Vibratory Roller	100	100	100	100	91	86	
CP533E Sheepsfoot Compactor	100	100	98	95	91	100	
CP633E Sheepsfoot Compactor	100	100	100	100	91	86	
Light Truck - 1.5 Ton							
Supervisor's Truck							
Flatbed Truck							
Air Compressor + tools							
Welding Equipment							
Heavy Duty Drill Rig							
Pump (plugging) Drill Rig							
Concrete Pump							
Gas Engine Vibrator							
Generator 5KW							
HDEP Welder (pipe or liner)							
5 Ton Crane							
20 Ton Crane							
50 Ton Crane							
120 Ton Crane							
Trucks							
725	100	100	100	100	100	95	
730	100	100	100	100	100	95	
735	100	100	100	100	99	91	
740	100	100	100	100	99	91	
769D	100	100	100	93	88	82	
773E	100	100	100	100	93	85	
777D	100	100	100	100	93	87	
785C	100	100	100	93	86	80	
793C	100	100	100	100	100	93	
797B	100	100	100	100	100	93	
613E (5,000 gal) Water Wagon	100	100	100	100	95	87	
621E (8,000 gal) Water Wagon	100	100	100	100	97	90	
777D Water Truck	100	100	100	100	93	87	
785C Water Truck	100	100	100	93	86	80	

Notes:

User entered deration value will override values from CAT Performance Handbook, except L2350 Loader: data from actual mine performance in Chile.

Komatsu altitude deration assumed from LeTourneau L2350

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